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AUTUMN 1922 CATALOG



**Bulbs
Roses
Plants**

**FRUIT
SHADE
AND
ORNAMENTAL
TREES**

**NARCISSI
HYACINTHS
TULIPS
CROCUS**

**Dutch Bulbs
Direct from our
Holland Grower**



**PORTLAND SEED COMPANY
PORTLAND, OREGON**

Bulb Planting Tables

Number of Bulbs Required for Planting Different Sized Beds of Tulips or Hyacinths

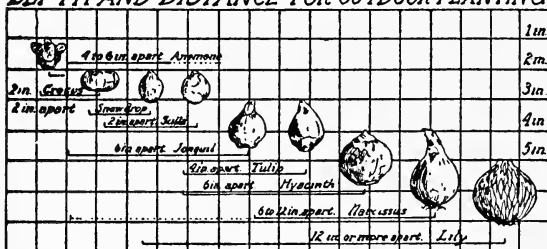
Everyone can afford a bed of flowering bulbs. They bloom so early, make such handsome and showy displays and require so little care that their general use is increasing each year. The best effect in bulb beds is obtained by planting to solid colors, but if variety is wanted we would not advise you to select over two or three colors. Too many colors spoil the whole effect. A very satisfactory way is to plant a solid center with one or two of the outer rows of another color, a pleasing effect is obtained by dividing the bed into four sections, planting each in a separate color. As the circular bed is the most popular and satisfactory, we use it as a basis to figure on. If you want a square or oblong bed the cultural directions of the different bulbs will give you the distance bulbs should be planted apart.

In ordering bulbs for the mixed beds and for the number contained in the two outer rows of different sized beds refer to table below.

Diameter of Bed	Total Number of Bulbs Required		Number of Bulbs Required for Two Outer Circles Only	
	Tulips	Hyacinths	Tulips	Hyacinths
3 feet	64	36	50	31
4 feet	113	50	68	45
5 feet	177	80	87	57
6 feet	254	120	104	69
7 feet	346	160	122	82
8 feet	452	210	140	95
9 feet	573	270	160	110
10 feet	707	330	180	120

NOTE—Plant the Tulips four inches apart in the rows and the rows four inches apart. Hyacinths six inches apart and the rows six inches apart. Narcissi same as Hyacinths. For Crocus, Snowdrops, etc., double the number of Tulips. See chart below.

DEPTH AND DISTANCE FOR OUTDOOR PLANTING



“Diamond” Fancy Lawn Mixture

GROWING tests have proved our “Diamond Quality” Lawn Grass to give satisfactory and permanent results, being specially prepared for our Western soils and climate, and will produce an evergreen velvety turf.

Price, per lb., postpaid, 55c, freight or express; not prepaid, per lb., 45c.

Sow one pound to 300 square feet, 12 to 15 pounds to a 50-foot lot.

✎ The sooner Hyacinths and Daffodils are planted the better they will grow and force.

Suggestions for Tulip Beds

No. 1—Circular Bed of Vermilion Brilliant with edging of two rows of Chrysolora, yellow.

No. 2—Round Bed in four sections, first quarter Cottage Maid, pink; second, Chrysolora, yellow; third, Artus, scarlet; fourth La Reine, white. This arrangement is effective with two colors, red and white being best.

No. 3—A Circular Bed of pleasing variety is made with Kaiserskroon scarlet edged gold, in center, Belle Alliance scarlet, next, then La Reine white, and on the outside rows Chrysolora yellow.

Solid Beds of Murillo, early double light pink, **Rose Grisdelin**, early single, delicate pink, **Couleur Cardinal**, bronze scarlet and **Pink Beauty**, a lovely flower, the finest pink, are very attractive and give a display that cannot be excelled by any combination of colors.

No. 4—Bed in Two Sections or Rows; **Van der Neer**, violet lilac; **Gold Finch**, rich sulphur yellow. A charming unusual effect in blue and yellow.

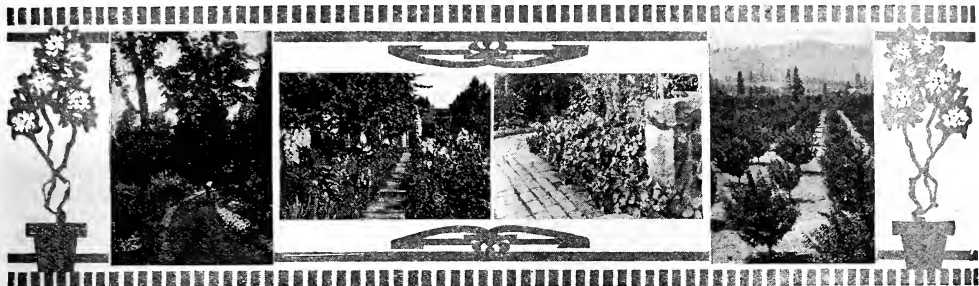
No. 5—Double Tulips—**Rubra Maxima**, scarlet, and **Murillo** give a fine showing, holding their form and lasting well.

No. 6—Single May Flowering—**White Swan**, **Gesneriana Spathulata**, rich crimson and **Bouton d’Or**, pure deep yellow, can be used in pleasing combination. They are tall growers (18 inches) and the best of their colors.

✎ Plant a shallow rooting annual in your Tulip bed, and you will not have a bare spot when the bulbs are gone. It also keeps the weeds down. Forget-me-nots, Petunias, Pinks, Poppies, Verbenas, Candytuft, are a few of the best. Low growing perennials are also good, as they need not be disturbed. It is best not to lift Tulips each year. Leave them in the ground. They bloom better.

FLORISTS, GARDENERS AND LARGE BUYERS OF BULBS should submit their lists for special prices on the number of bulbs they use. We can save you money, and our “Diamond Quality” Bulbs will give you satisfaction.

AUTUMN CATALOG



FALL 1922 :: SPRING 1923

IN presenting our Fall Catalog, we wish to express to our many friends our thanks and appreciation of their liberal patronage that has made it possible for us to offer for their approval our present splendid and complete assortment of standard varieties and novelties. Our large importations of LILIES from Japan, and our full line of FRENCH and DUTCH FLOWERING BULBS, are now arriving in excellent condition. These are the finest stocks from the most reliable growers, and they come direct to us in their original packages.

Our FRUIT TREES, BERRIES, ORNAMENTAL SHADE TREES, etc., are grown for us in and around Portland. In no other place does Nursery stock grow to such perfection as in our own locality. A recent inspection in the field shows the quality to be unsurpassed; clean, well grown, free from disease and pests, and, in strict compliance with our State Horticultural Laws it is always inspected before shipping.

Our ROSES—Nowhere in the known world do roses grow to the perfection attained in our favored locality. This is no idle boast but an established fact. We are justly proud of our splendid field grown roses. The well known sorts and the newer types we offer are only such as are known to thrive here. We do not attempt to list all varieties of roses. There are hundreds of them that have no value in the open ground and thousands that have no value anywhere.

It is our earnest endeavor to offer only such varieties as are known to be desirable, and nowhere, we assure you, can you obtain better stocks or better values. We trust by our honest and prompt attention to merit your further approval.

FLOWERS, SHRUBS and TREES, and a well kept lawn add greatly to the value and beauty of your home, and time devoted to this care should prove a helpful and fascinating diversion, as well as a very profitable one.

IMPORTANT—PLEASE READ CAREFULLY

WHEN TO ORDER—We issue this Catalog in September, but your order placed at any time will go forward in season, as follows:

FLOWERING BULBS—Begin to arrive in September, deliveries being complete by December 1st, except Cannas, Dahlias, Gladioli, etc., which are not ready until after February 1st.

ROSES—Our large two-year old field grown roses are ready for delivery from November until May, one-year old mailing size from January to August. The earlier you set them the better they will grow.

PALMS, POT AND HOUSE PLANTS—Palms and plants should be potted as soon as possible after arrival and watered well for a day or two so as to settle the earth around the little fibrous roots.

Order Early—it helps us to please you.

FRUIT, SHADE AND ORNAMENTAL TREES AND SHRUBS—We ship these from November until May and recommend fall and early spring planting. If you do not want to plant on arrival, dig a trench and "heel" your trees in. If the ground is frozen, put them in a cellar and keep the roots damp.

COMPLAINTS OR PRAISES—If our goods and treatment please you, tell others; if anything is wrong, tell us quickly, so that we can make it right. Our best efforts will be given to filling all orders in a satisfactory manner.

WE NEVER SUBSTITUTE without permission from our customer. But as many items are sold out, as the season advances, when requested, we will substitute varieties of equal merit maturing about the same season.

But always labeled true to name.

MAIL and EXPRESS CHARGES on BULBS

Only Flowering Bulbs are Prepaid at Catalog Prices to points in the United States, Alaska, Canadian and foreign postage extra. All other items F. O. B. Nursery unless otherwise stated.

WE CANNOT SEND PERISHABLE GOODS C. O. D.—CASH MUST ACCOMPANY ALL ORDERS.

SEND MONEY by postoffice or express money order, bank draft or registered letter.

NO GOODS CHARGED UNLESS YOUR CREDIT IS ESTABLISHED WITH US.

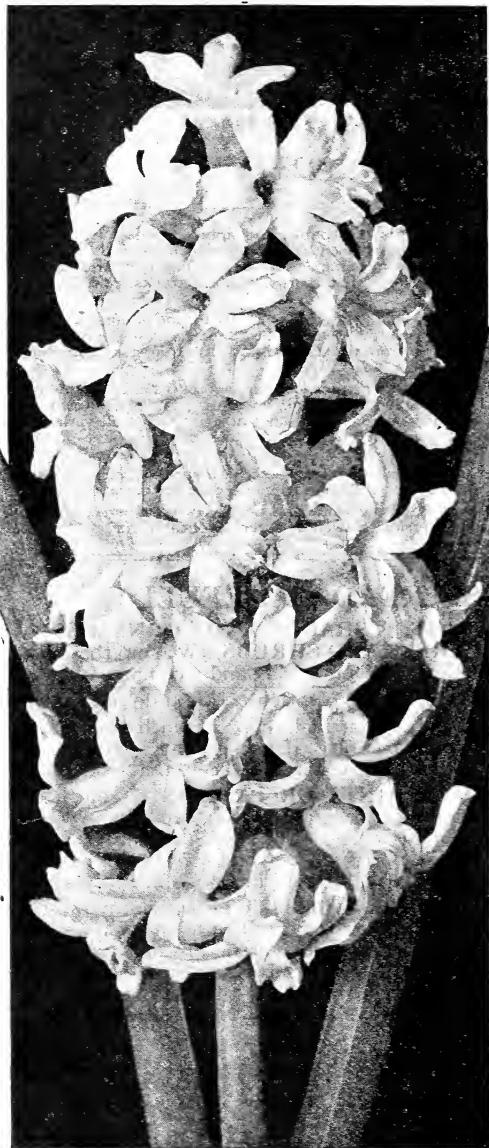
HOW DO YOU WANT YOUR ORDER SHIPPED? Your order will be shipped any way you wish—by express, parcel post or freight. If you are in doubt about the best way to have your order sent, leave it to us. We will ship it in the most economical way.

We give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, nursery stock, roots or plants we send out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned. **PORTLAND SEED COMPANY**

THIS CATALOG IS ISSUED BEFORE PRICES ARE ESTABLISHED. THEREFORE PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE; IF LOWER, YOU WILL BE PROTECTED.

HYACINTHS

OUR named Hyacinths have massive spikes of bloom of the most delicate and beautiful shades from pure white through blush to pink, rose and deepest red, from dainty porcelain shades of blue to blue black and from cream to yellow, apricot and orange. Their dainty wax-like flowers rare fragrance and easy culture endear them to every grower and they can be had in bloom from early winter to late spring.



SINGLE HYACINTH

When ordering Hyacinths for bedding refer to the table inside of front cover for number of bulbs required.

The assorted bedding Hyacinths we offer are fine large bulbs that will produce splendid spikes of bloom in the best colors. They are very low in price and much superior to the mixed bedding Hyacinths commonly sold and which are generally so variable in their shades of color as to spoil the general effect of the planting.

OUR "A" GRADE—For those of our customers who want to produce Hyacinths of the grandest size and finest quality, we recommend our "A" grade. These are extra choice, large, round, solid bulbs, selected especially for our best trade by our Holland growers. They will produce those handsome, mammoth flowers so highly prized, and are excellent for forcing and pot culture.

OUR "B" GRADE—This grade is usually bought, and we sell more of this price and size bulb than any other. Our "B" grade is equal, if not superior, to the "First" or "Select Grade" offered by many seed stores.

OUTDOOR CULTURE—The preferable season is October, November and December but bulbs give good results if planted somewhat later. Plant so that the tops of the bulbs will be from two to three inches below the surface and five to eight inches apart. In preparing the bed, see that it is well drained, so that the bulbs will not rot during our long wet winters. After flowering, if the beds are wanted for late spring planting take up the bulbs, top and roots, and "heel in" in some corner of the garden until the bulbs mature, after which they should be spread out in an airy room to dry, and kept in a cool dark place until time for replanting the following autumn.

INDOOR CULTURE IN POTS—Bulbs for winter blooming can be planted from September until December—the earlier the better. Plant one bulb to a four-inch, or three to a six-inch pot. Then place in a cool dark cellar, watering well. The whole success of pot culture depends on getting the roots well established in the pots, at a low temperature of say, 40 to 50 degrees, before you begin to force the tops. From four to six weeks is not too long to leave them in a dark, cool place. After this the bloom is easily developed by giving light, heat and water, and one can have a supply of flowers from Christmas until Easter by regulating the time of bringing them to light.

CULTURE IN GLASSES—When it is desired to grow Hyacinths or Narcissus in water, they should be placed so that the base of the bulb merely touches the water. The glass should then be set in a cool, dark place, until filled with roots, when they may be brought into the light. Fill the glasses with fresh water every few days. Give as much fresh air as possible without letting the plants stand in a draught, and as nearly as possible at a temperature of 60 degrees until the spikes are developed.

HYACINTHS—EARLY SINGLE

PRICES	A Grade....	Each 20c; Doz.....	\$1.90; 100.....	\$13.50
	B Grade....	Each 15c; Doz.....	1.50; 100.....	11.25
	C Grade....	Each 12c; Doz.....	1.25; 100.....	9.00

State varieties preferred.

Single Red and Pink

- CARDINAL WISEMAN**—Bright rose; fine broad spike.
GENERAL PELISSIER—Brilliant carmine, compact spike; an early forcer.
GERTRUDE—Fine rosy pink; excellent sort for forcing or bedding. Flowers large.
GIGANTEA—Fine blush pink; giant spikes.
LADY DERBY—(New)—Lovely light rose pink, large spike.
LA VICTOIRE—(New)—Brilliant carmine red, forces early, extra fine.
MARCONI—Bright pink, broad spikes, beautiful flower. New.
MORENO—Extra fine pink, very large spikes and bells; forces easily. Highly recommended.
QUEEN OF PINKS—Large compact flower, bright pink. An exhibition variety.
ROI DES BELGES—Bright scarlet; well formed compact truss of medium size bells.

Single Yellow

- CITY OF HAARLEM**—Bright golden yellow, large spike, extra fine.
KING OF YELLOWS—Bright golden yellow, grand spikes, a superior bedding variety.
YELLOW HAMMER—Golden yellow, extra fine flower, forces easily; exhibition variety.

Single Violet and Purple

- L'ESPERANCE**—Dark violet, very showy, good truss, late.
MAUVE QUEEN (Henriette)—Mauve, good spike.

Single Blue

- GRAND LILAS**—Extra fine porcelain blue; grand large spikes and bells; forces easily.
GRAND MAITRE—Fine deep porcelain blue, very large broad, well formed spike.
KING OF BLUES—Deep glossy blue, large compact spikes. The finest dark blue.
PERLE BRILLANTE—Fine light blue, extra large spike, a grand novelty which deserves attention.
QUEEN OF THE BLUES—A beautiful light blue with silvery sheen; a large, handsome flower.

Single Pure White

- ARENTINE ARENDSE**—Grand, pure waxy white flower, with large spike and bells.
LA GRANDESE—Extra fine snow white, large spike, a grand exhibition variety.
L'INNOCENCE—One of the earliest; pure white; fine for forcing.
MADAM VAN DER HOOP—Pure white. Fine for general planting; erect habit.
QUEEN OF THE WHITES—Pure white, fine large spike, dwarf habit. Splendid for late pot-work. (New.)

Select Double Named Hyacinths

While the flowers of Double Hyacinths are large and beautiful, the spikes are not generally so full of bells as those of the single sorts.

All First Size, Large, Solid, Select Bulbs. Price, each 20c; dozen \$1.90

Double White

ISABELLA—Fine blush white; grand spike.

Double Blue

GARRICK—Deep azure blue; very large spike.

DIAMOND QUALITY

BEDDING HYACINTHS

DISTINCT COLORS

A superior grade of selected bulbs, generally used for planting outdoors in making up beds, borders or large displays, but are equally good for forcing.

SINGLE—Pink, Red, Pure White, Yellow, Dark and Light Blue.

Each 12c; doz. \$1.25. Per 100 \$8.50.

DIAMOND QUALITY


BEDDING HYACINTHS

ASSORTED COLORS

Mixed Straight Colors

SINGLE—Pink, Red, Pure White, Yellow, Dark and Light Blue.

Each 10c; doz. \$1.10; 100 \$7.50.

 Bulbs prepaid in U. S. only. Postage to Canada, Alaska and outside points extra.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG



Early Single Tulips Single White

ALBION, B 10—(White Hawk)—One of the finest pure white Tulips in cultivation for forcing and bedding; flowers snow white, very large and of great substance.

Each 8c; doz. 80c; 100 \$6.75

LA REINE, B 8—Pure white; best white Tulip for forcing and bedding.

Each 6c; doz. 55c; 100 \$3.25

Single Violet

VAN DER NEER, A 10—Large violet purple, fine form, early. Each 9c; doz. 85c; 100 \$6.50

WOUVERMAN, B 8—Purple violet, large flowers; fine for out-door planting.

Each 8c; doz. 80c; 100 \$5.75

Single Pink

PINK BEAUTY, B 11—Bright rose pink shading to blush near yellow center. Has no equal in its class.

Each 10c; doz. \$1.00; 100 \$7.25

PROSPERINE, A 12—Fine glossy carmine pink, large and early forcer and a splendid bedding Tulip. Each 10c; doz. \$1.10; 100 \$7.50

ROSE LUISANTE, B 9—Deep pink, extra fine bedder; forces well.

Each 9c; doz. \$1.00; 100 \$7.25

ROSE GRISDELIN, B 7—Beautiful delicate pink.

Each 7c; doz. 65c; 100 \$4.25

Fine Single Mixed

All colors and shades; fine for bedding.

Each 5c; doz. 50c; 100 \$3.00

TULIPS

Extra Select Large Solid Bulbs

WHETHER planted in masses or small beds, Tulips produce a handsome and striking effect. They are equally desirable as pot plants and are always sure to bloom. Any good garden soil will grow them to perfection and no bulb makes such a gorgeous display of blossoms with so little cultivation.

CULTURE—The culture of Tulips is similar to that of Hyacinths, except that the bulbs should not be planted quite so deep, and from three to six inches apart. All single Tulips force easily. For indoor planting we have regular Tulip pans. Plant four bulbs to a six-inch pan; eight to an eight-inch pan, etc.

The letters A, B, C, following the varieties, indicate their earliness of bloom; the A's are the earliest, B's follow, etc. The average height in inches is also given for your benefit in selecting for bedding purposes.

Outdoors—Early or late planting does not seem to have much effect on Tulips, but they should be planted in fresh, rich soil, but not freshly manured, manuring should be done six months before planting.

Single Scarlet

ARTUS, B 7—Deep, brilliant scarlet, fine for forcing or bedding.

Each 7c; doz. 65c; 100 \$4.00

AUGUSTA—Bright deep rose, large globular shape; splendid for forcing. A splendid novelty of great merit; extra recommended for market and for bedding.

Each 8c; doz. 80c; 100 \$5.25

BELLE ALLIANCE, B 7—Brilliant scarlet, sweet scented; excellent for forcing and bedding.

Each 7c; doz. 80c; 100 \$5.25

BRILLIANT STAR—Brilliant scarlet, black center, large flower, tall erect stem.

Each 12c; doz. \$1.20; 100 \$8.75

COULEUR CARDINAL, B 10—Brilliant crimson, slightly dewed outside but inside glittering scarlet, large fine shaped flower of very great substance, strong stem. A grand variety for medium early and late forcing and splendid for all bedding purposes.

Each 8c; doz. 80c; 100 \$5.50

CRAMOISE BRILLIANT, B 10—(Sparkler)—Bright vermillion, large flowers of great substance, fine forcer.

Each 7c; doz. 60c; 100 \$4.00

DUC VAN THOLL COCHINEAL—Rich vermillion, very large flower, very early and easy forcer.

Each 7c; doz. 75c; 100 \$5.25

PRINCE OF AUSTRIA, B 12—Bright orange vermillion, sweet-scented flower, fine forcer and bedder.

Each 7c; doz. 75c; 100 \$5.00

VERMILION BRILLIANT, B 8—A beautiful flower, forces easily and early; one of the largest and finest scarlets.

Each 9c; doz. 85c; 100 \$6.25

EARLY SINGLE TULIPS—Continued

Single Yellow

CHRYSOLOGA, A 9—Pure golden yellow, large and fine, excellent for bedding.

Each 7c; doz. 70c; 100 \$4.75

GOLD FINCH, B 9—Golden yellow, sweet scented; forces easily and early; a good bedding sort.

Each 8c; doz. 75c; 100 \$5.00

KING OF THE YELLOWS—Deep golden yellow, well shaped flower, round on the top. One of the earliest for forcing.

Each 7c; doz. 65c; 100 \$4.75

MON TRESOR—Pure golden yellow, very large flower, the best yellow Tulip for early forcing.

Each 7c; doz. 70c; 100 \$4.75

THOMAS MORUS, A 12—Apricot orange. The finest forcing Tulip of its color, very early.

Each 7c; doz. 65c; 100 \$4.25

YELLOW PRINCE, B 9—Sweet scented; one of the very best for forcing; a fine yellow.

Each 7c; doz. 65c; 100 \$4.25

Single Variegated

COTTAGE MAID, B 9—White bordered with pink, extra fine.

Each 8c; doz. 80c; 100 \$5.75

DUCHESS DE PARMA, C 10—Terra Cotta with yellow edge, good bedding variety.

Each 7c; doz. 70c; 100 \$4.75

KEIZERSKROON, B 9—Bright red, with yellow edge; very large, no other Tulip makes such a handsome bed.

Each 7c; doz. 55c; 100 \$4.25

Parrot Tulips

Parrot Tulips have immense flowers of brilliant and varied colors, with petals curiously fringed or cut. They are very showy and should be grown in every flower garden.

ADMIRAL DE CONSTANTINOPLE—Orange red, good size.

Breeder Tulips

ON account of the fast growing demand for these mostly bronze, brown and buff toned Tulips we have increased our stock with the best varieties and made out a more extensive list of names with description of color, etc., of the different varieties.

The more these 17th and 18th Century Tulips with their bold flowers and grave colors become known the more the demand for the same will increase.

BRONZE KING—Bronze with olive base.

Each 11c; doz. \$1.20; 100 \$8.75

BRONZE QUEEN (Clio)—Light buff, inside glittering yellowish brown; flower of great substance.

Each 8c; doz. 90c; 100 \$6.25

CARDINAL MANNING (Goliath)—Rosy violet, flushed rosy brown, large flower.

Each 8c; doz. 90c; 100 \$6.75

GODET PERFAIT—Bright violet, clear and refined. A very long lasting flower on tall strong stem.

Each 15c; doz. \$1.50; 100 \$11.00

GOLDEN BRONZE—Golden bronze with deep gold base. A striking variety.

Each 15c; doz. \$1.50; 100 \$11.00

PRINCE OF ORANGE (Orange Beauty)—Orange red with narrow golden edge. Superbe, velvet brown.

Each 9c; doz. \$1.00; 100 \$7.50

TURENNE (MacMahan)—Dark blue edged brown-bronze, very large flower.

Each 15c; doz. \$1.50; 100 \$10.50

YELLOW PERFECTION—Light bronze yellow.

Each 9c; doz. \$1.00; 100 \$7.00

Early Double

Are used mostly for outdoor planting and bloom a little later than the early; being double and full, the blossoms last longer. This, with the great variety of kings, makes them favorites with many.

BOULE DE NEIGE (Purity) A—Pure white large paeony-like flower.

Each 8c; doz. 75c; 100 \$5.35

COURONNE D'OR, B 8—The best double yellow for forcing.

Each 8c; doz. 75c; 100 \$5.00

MURILLO, B 8—Decidedly the best double pink Tulip for forcing or bedding; flowers large and full.

Each 7c; doz. 60c; 100 \$4.00

RUBRA MAXIMA, B 9—Bright crimson scarlet; splendid for bedding; cannot be forced; flowers large.

Each 7c; doz. 65c; 100 \$4.50

SALVATOR ROSA, A 7—Beautiful deep rose, flamed with white; fine for forcing.

Each 8c; doz. 80c; 100 \$5.25

TITIAN—Scarlet, edged yellow. Height, 12 inches.

Each 8c; doz. 80c; 100 \$5.25

TOURNESOLL, A 9—Bright red, with yellow edge, sweet scented, large flower. Easily forced.

Each 8c; doz. 85c; 100 \$5.50

EARLY DOUBLE MIXED—This mixture contains a large and choice assortment of all colors and shades; very suitable for outdoor planting.


Each 6c; doz. 60c; 100 \$4.00

CRAMOISE BRILLIANT—Beautiful carmine red, large flowers; very fine.

MARKGRAAF—Inside rich orange, outside scarlet and yellow, feathered, extra fine.

Prices: Each 8c; dozen 75c; 100 \$5.50.

WRITE FOR 1923 FREE ANNUAL CATALOG AND PLANTERS GUIDE.

 Bulbs prepaid in U. S. only. Postage to Canada, Alaska and outside points extra.

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Type of
May-Flowering
Tulips

Gesneriana
Spatulata



SINGLE TULIPS

MAY FLOWERING

THESE are to be grown in the open ground only, each individual blossom being a marvel of beauty in itself. They grow from 18 to 24 inches high and appear at their best when used in the border, the foreground of shrubbery or buildings, or out of the way corners of garden, where, if left undisturbed, they will bloom with increasing beauty for years. They are extremely hardy and the flowers borne on long strong stems are good keepers when cut.

BOUTON D'OR—The only late pure deep golden yellow.

Each 8c; doz. 70c; 100 \$4.75

GESNERIANA SPATHULATA—Blossoms large; color rich crimson with dark center. Each 9c; doz. 85c; 100 \$5.25

GESNERIANA LUTEA—Deep yellow, fine large flower.

Each 8c; doz. 70c; 100 \$5.00

ISABELLA—(Shandon Bells)—Cream turning to carmine, large.

Each 8c; doz. 75c; 100 \$5.50

INGLESCOMBE PINK—Salmon pink with blue base; one of the finest of the large May flowering Tulips.

Each 8c; doz. 80c; 100 \$5.50

INGLESCOMBE YELLOW—A large fine yellow of perfect form; may be used for yellow Darwin.

Each 8c; doz. 80c; 100 \$5.50

LA MERVEILLE—A large bright scarlet, suffused apricot orange; graceful long pointed petals.

Each 9c; doz. 85c; 100 \$5.50

MRS. MOON—Large orange yellow. The best of its color.

Each 9c; doz. 90c; 100 \$6.50

ORANGE KING—Bright deep orange, fine shaped, sweet scented, excellent for beds and borders.

Each 7c; doz. 70c; 100 \$5.00

PARISIAN YELLOW—Golden yellow, large flower, very late.

Each 8c; doz. 75c; 100 \$5.25

WHITE SWAN—A lovely egg-shaped pure white flower on long stems; extra fine cut flower.

Each 8c; doz. 85c; 100 \$5.50

ELLEN WILMOT—Lemon yellow.

Each 8c; doz. 85c; 100 \$6.00

PICOTEE—White with a pink border; fine for cutting.

Each 8c; doz. 75c; 100 \$5.15

CROCUS

A DESIRABLE EFFECT is produced by setting Crocuses here and there over the lawn. It is only necessary to lift the turf and insert the bulbs about two inches deep. They bloom very early, dying down to the bulb in ample time to be entirely out of the way of the lawn mower. Once planted, they will remain uninjured in the ground and bloom for years.

PRICE, except as noted.....doz. 30c; 100 \$2.00

BARON BRUNOW—Bright purple, free bloomer, flowers large, extra fine.

KING OF THE WHITES—Mammoth snow white, truly the king of all white Crocus.

LOTHAIR—White with blue stripes, very beautiful and distinctive.

PURPUREA GRANDIFLORA—Bright purple, large, fine flower.

Price, doz. 50c; 100 \$3.00

Separate colors in mixed shades are extensively planted for outdoor beds or borders.

ASSORTED—Blue, striped, white or yellow. Doz. 30c; 100 \$2.00

MIXED—All colors. 100 \$1.50

MONT BLANC—Large, pure white; one of the finest.

MAMMOTH YELLOW—Yellow, selected bulbs of large size; finest blooms. Per doz. 50c; 100 \$3.00. First size, doz. 40c; 100 \$2.50.

SIR WALTER SCOTT—White, striped with purple, the best striped, very large.

GIANT DARWIN TULIPS

DARWINS are rapidly becoming the most popular Tulip for outside planting. They flower in May, are of giant size and have a majestic beauty distinctively their own that is invaluable for garden and landscape effects. They come in the most varied and brilliant colorings, and their immense globular flowers of perfect form and satiny, wax-like texture, long stems and lasting qualities, make them ideal for cutting.

For best effects Darwins should be planted in clumps of from 15 to 25 bulbs of one color, or in the foreground of shrubs, trees, borders, or buildings. They prefer partial shade, but will thrive in any location.

CLARA BUTT—Bright apple blossom pink, a brilliant and beautiful self-color. Conceded by all critics to be the most magnificent of the Darwin type; splendid for forcing and flowers, must be grown cool when forced.

Each 7c; doz. 75c; 100 \$5.00

DREAM—Beautiful soft lilac self-colored, extra large.

Each 8c; doz. 80c; 100 \$5.75

EUROPE—Salmon scarlet, shaded rose.

Each 9c; doz. 90c; 100 \$6.25

FARNCOMBE SANDERS—Magnificent brilliant scarlet, a finely formed giant flower; the best red Darwin.

Each 10c; doz. \$1.00; 100 \$7.00

GRETCHEN—Large globular delicate pink flower, inside soft blush.

Each 7c; doz. 65c; 100 \$4.50

HIPPOLYTE—A unique color among Darwin sorts being a beautiful blue-violet shade.

Each 10c; doz. \$1.00; 100 \$7.50

LA CANDEUR—(White Queen)—Splendid white flower tinged delicate blush; large size.

Each 8c; doz. 80c; 100 \$5.75

LA TULIP NOIRE—The Black Tulip—Flowers large, lustrous and attractive, of fine form, grows 24 inches high. A rare novelty.

Each 8c; doz. 80c; 100 \$5.75

KING HAROLD—Deep garnet red with purple black base. Splendid variety for border use. Strong stems.

Each 8c; doz. 80c; 100 \$5.75

MASSACHUSETTS—Large flowers of vivid pink with white center. Superb for outdoor planting.

Each 8c; doz. 80c; 100 \$5.50

MME. KRELAGE—Bright pink, lighter edge.

Each 9c; doz. 85c; 100 \$6.25

NORA WARE—Lovely silvery lilac with white suffusion. A very popular variety; height 20 inches.

Each 9c; doz. 85c; 100 \$5.75

PRIDE OF HAARLEM—Brilliant salmon rose, shaded scarlet, blue at base; of grand size and form.

Each 9c; doz. 80c; 100 \$5.50

REV. EWBANK—Soft mauve, light edging.

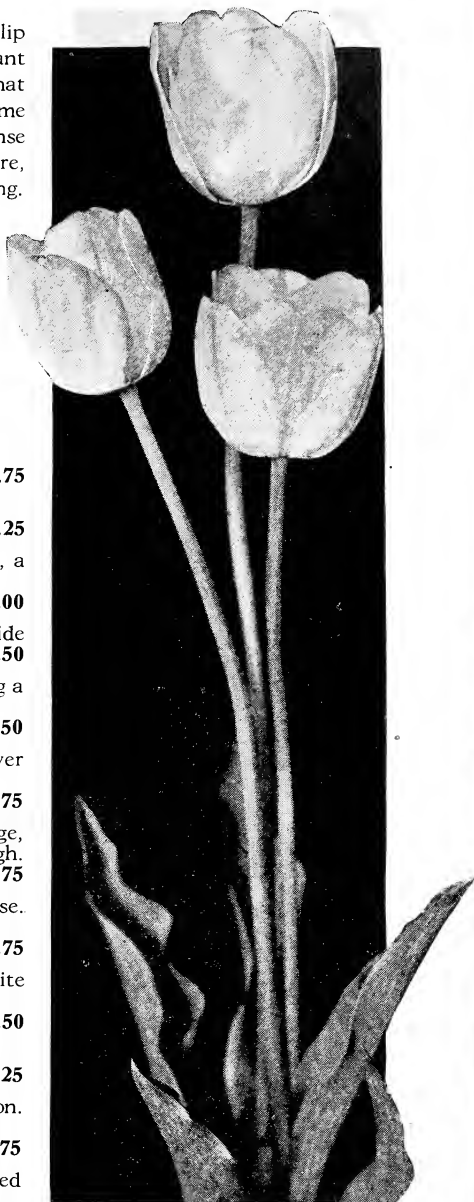
Each 8c; doz. 80c; 100 \$5.75

WILLIAM COPELAND—Bright rosy-lilac. Splendid for early forcing. Can be had in fully developed flowers, early in January.

Each 8c; doz. 85c; 100 \$6.00

MIXED—Each 7c; doz. 65c; 100 \$4.35.

Darwin "Clara Butt"

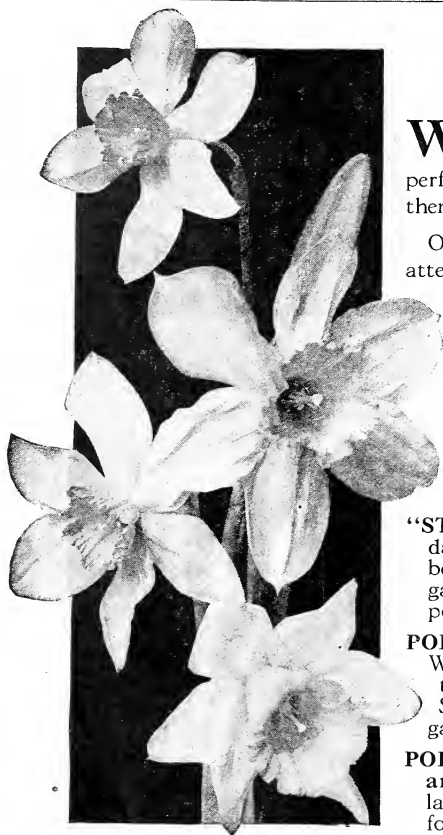


Don't Fail to Plant a
Few Clumps of

DARWINS

They make a wonderful
garden display and are
beautiful and lasting
when cut.

For Gladioli, Dahlias, Cannas and Spring Flowering Bulbs
see our General Catalog. Ready in January.



"DIAMOND QUALITY"

NARCISSI

WE CONSIDER NARCISSI to be the most satisfactory and valuable of all flowering bulbs; their exquisite perfume, earliness, free blooming and keeping qualities endear them to all who have grown them.

Once planted in the field or garden they need no further attention but will thrive and perpetuate themselves, increasing in beauty for years.

Popular Types

POLYANTHUS—Flowering in clusters; the "Paper White" being the earliest, easiest to force and best known of this class.

"DAFFODILS"—The trumpet types are the most widely known, and some of the best garden varieties are of this class; they also force easily, making ideal pot plants.

"STAR NARCISSUS"—The "Chalice Cupped" are the daintiest and most charming of all types. To this class belong the *Incomparabilis*, *Barrii*, *Leedsii*, etc., all splendid garden varieties that will give perfect results when grown in pots or forced.


POETICUS or **"PHEASANTS EYE"** NARCISSUS—The White flowered give us some of the best of the later garden types, being hardy, sweet scented, very chaste and beautiful. Some varieties force easily, others are best suited to the garden or field.

POETAZ NARCISSI—Are hybrids of *Poeticus* and *Polyanthus* types, forming a distinct and beautiful, free blooming, large cluster flowered class, equally valuable for bedding or forcing; extremely hardy.

Culture of Narcissi

Outdoor Culture—Plant in early fall if possible but plantings as late as Christmas will give excellent results. The depth to plant is $1\frac{1}{2}$ the depth of the bulb. This gives a covering of 2 to 3 inches of soil. Any good garden soil which has not been recently manured will give satisfactory flowers, but a deep, moist loam is best. If the ground is dry or sandy it should be dug deeply, well manured and an annual such as potatoes grown the year previous. If your soil is light and you do not want to take off a crop before planting, give a light dressing of lime to the surface and work in a layer of well rotted manure a foot below, so as to be out of reach of the bulbs; this layer is to hold the moisture, not as a fertilizer. The best fertilizer is ground bone. This can be used with safety on poor sandy soil.

Pot Culture—The Bulbs should be planted as soon as received as earliest plantings insure finest flowers. In pottings use good, turfy loam, but let no manure of any kind, well rotted or otherwise, touch the bulb. Set in a cool, dark room for a month or two, until well rooted, then remove to the light for flowering. (All bulbs prefer a cool temperature. Be careful not to grow them too warm.) Do not cultivate too much, as extra vigor of growth injures the purity of color. Some Narcissi prefer partial shade but grow splendidly in any situation.

 *In planting Narcissi large groupings of irregular outline give most pleasing effects, shun symmetrical lines or formal designs.*

Double Daffodils

ALBA PLENA ODORATA (6)—"The Double White Poet's Narcissus."—Double, snow-white flowers, exquisitely scented; late flowering; cannot be forced.

Each 6c; doz. 60c; 100 \$4.00

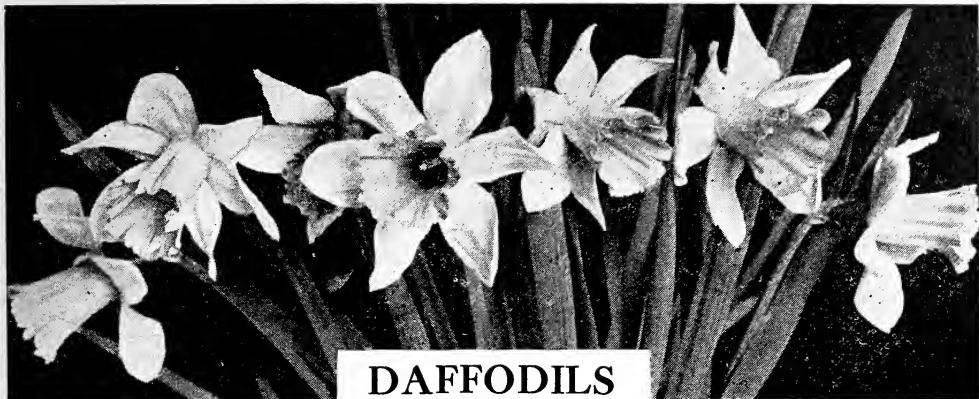
ORANGE PHOENIX (3)—(Eggs and Bacon) Beautiful double white flowers, with orange center; splendid for pot culture, cutting and garden planting.

Each 9c; doz. 95c; 100 \$7.00

VAN SION—(*Telamonius Plenus*) (2)—"The True Double Yellow Daffodil." Rich golden yellow perianth and trumpet. Thrives and blooms in increasing profusion every spring and is also one of the best winter flowering and forcing sorts. Each 9c; doz. 95c; 100 \$7.00

VAN SION No. 2—Ea. 7c; doz. 70c; 100 \$5.00

SILVER (SULPHUR) PHOENIX (3)—Very large flowers; pale creamy white, shading to primrose. Each 9c; doz. 95c; 100 \$6.75



DAFFODILS

THE TRUMPET TYPES OF NARCISSI are the true old fashioned form of Daffodils, they are the largest and most glorious of all Narcissi and are perfectly hardy everywhere. Can also be grown in pots.

BARRII CONSPICUUS—(4)—Long-steamed flowers, with beautiful broad-petaled perianth; sparkling canary yellow, with deep golden cup, richly edged with orange scarlet.

Each 8c; doz. 75c; 100 \$5.00

BICOLOR EMPRESS—(3)—Perianth snow-white, trumpet rich yellow, serrated and flanged at the edges, large in outline and of rare beauty.

Double Nose—Ea. 12c; doz. \$1.20; 100 \$9.25
First Size—Ea. 11c; doz. \$1.10; 100 \$9.00

BICOLOR VICTORIA—(2)—A magnificent large variety, bold and erect. Sweet scented. Perianth white and of great substance; trumpet rich yellow.

Db'l Nose—Each 12c; doz. \$1.20; 100 \$9.50
First Size—Each 10c; doz. \$1.20; 100 \$8.00

EMPEROR—(3)—Perianth primrose; trumpet large, rich deep yellow. One of the finest Daffodils grown.

Db'l Nose—Each 12c; doz. \$1.30; 100 \$10.00
First Size—Each 9c; doz. \$1.00; 100 \$7.00

GOLDEN SPUR—(1)—Extra large, bold, rich, golden yellow flowers, foliage very broad and striking; unsurpassed for gardens, pots and forcing.

Db'l Nose—Each 11c; doz. \$1.25; 100 \$9.00
First Size—Each 9c; doz. 90c; 100 \$6.25

GLORY OF LEIDEN—(4)—A bold, giant daffodil, with golden yellow trumpet, perianth lighter, forces well, and very hardy in open ground. Each 12c; doz. \$1.10; 100 \$8.50

Poeticus Varieties

The large, single blossoms, 2 to 2½ inches across, are of a snowy whiteness, intensified by the exquisite golden colored cups, ringed like a pheasant's eye, with red and green.

GLORY OF LISSE—(4)—The new Poeticus, largest of the type. Snowy white, perfectly formed. Each 10c; doz. 90c; 100 \$6.50

POETICUS (Pheasant's Eye)—(5)—Pure white flowers, orange cup, edged with red. Very useful for cutting in spring; are perfectly hardy out of doors—will bloom year after year. Does not force.

Each 10c; doz. \$1.00; 100 \$7.00

To enable you to plant for succession of bloom, we have numbered the varieties in their relative earliness. No. 1, early March; No. 2, late March; No. 3, early April; No. 4, late April; No. 5, May.

KING ALFRED—Rich golden yellow. Very large, broad, elegantly twisted and beautiful recurved, trumped, broad massive, well formed perianth. The remarkable handsome flowers which are of great substance stand horizontal on their strong stems.

Db'l Nose—Each 25c; doz. \$2.50; 100 \$19.00

First Size—Each 20c; doz. \$2.00; 100 \$15.25

POETICUS ORNATUS—(4)—(The Improved Poeticus)—Pure white cup, edged with scarlet. Good forcer and earlier than Poeticus.

Db'l Nose—Each 7c; doz. 80c; 100 \$5.50

First Size—Each 6c; doz. 50c; 100 \$3.00

LUCIFER—Large white perianth, cup intense glowing orange-red. First class certificate R. H. S.

Each 9c; doz. 95c; 100 \$7.00

MAD. DE GRAAFF—(4)—Opens with soft primrose trumpet passing to white, forces well and for garden or naturalizing in grass has no superior. Each 12c; doz. \$1.30; 100 \$10.00

SIR WATKIN—Incomparabilis Type—(2)—“The Giant Chalice Flower,” or “Big Welshman.” Immense, long stems, flowers of rich light yellow, with a large, dark cup, tinted with orange.

Db'l Nose—Each 17c; doz. \$1.75; 100 \$10.25

First Size—Each 9c; doz. 90c; 100 \$6.50

Cluster-Flower—Poetaz Narcissi

These are hardy hybrids between Polyanthus and Poeticus, very vigorous, bearing in profusion clusters of delightfully fragrant flowers. Good keepers, forcing or bedding.

ELVIRA—Broad, white petals, deep golden cup, with scarlet edge, delicious fragrance.

Each 9c; doz. 95c; 100 \$9.00

IRENE—Perianth yellow, cup orange.

Each 9c; doz. 95c; 100 \$8.50

JONQUILS

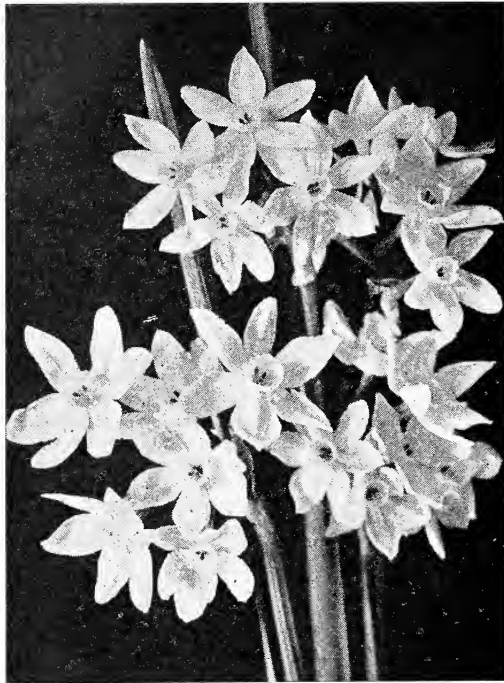
A species distinguished by rush like leaves. Easily grown in the house or open ground.

JONQUIL CAMPERNELLE RUGULOSUS—

Improved giant, beautiful rich yellow.

JONQUIL CAMPERNELLE RUGULOSUS

PLENUS—Double yellow flowers of great beauty. Each 7c; doz. 70c; 100 \$5.00



Narcissus "Paper White"

Freessias

These popular winter blooming bulbs force readily, and by successive plantings will last throughout the season. Their handsome clusters of white flowers have a most delicious fragrance. Plant four to six in a 4-inch pot.

PURITY—New Giant Freesia—Pure white.
Doz. 50c; 100 \$3.00

Colored, lavender, yellow, rainbow and pink.
Doz. \$1.00

Our connection with the most successful and reliable growers of Freesia enables us to supply our patrons with the choicest grades both in size and quality possible to produce and at prices no higher than for the average commercial grades.

Calla Lilies

CALLA, Ethiopia—(Lily of the Nile)—An old and well known house plant; white, trumpet-shaped flowers.

Bulbs 20c each; \$2.00 doz.

CALLA, New Godfrey—This new variety gives three flowers to one of the older variety. Flowers snow white and perfect in form. Blooms on very small plants.

Bulbs 25c each; \$2.50 doz.

CALLA, Elliotana—Immense yellow trumpet-shaped flowers. Green leaves, finely mottled white.

Bulbs 35c each; \$3.75 doz.



EARLY FLOWERING BULBS

FOR INDOOR PLANTING

THE EARLY FLOWERING BULBS for indoor planting will give the first winter flowers and can be had in succession from early winter until spring. They are of easy culture, sure to bloom, and should be in every home and school room.

Narcissi—*Polyanthus*

The Polyanthus varieties of Narcissi are not only beautiful, but deliciously sweet-scented, and of the easiest culture, very free flowering and suitable for forcing indoors or bedding out, continuing long in bloom.

Include the choice named varieties such as **Grand Monarch**, white; **Soleil D'Or**, yellow; **The Pearl**, **Gloriosa**, etc., and are suitable for open ground or pot culture.

They can also be grown in water the same as the "Paper White."

Each 10c; doz. \$1.10; 100 \$8.00

Paper White—*Grandiflora*

Beautiful fragrant flowers of pure white; forces admirably and flowers freely in dense clusters; will bloom in December, if potted early. Anyone can grow them in the house successfully. Plant one bulb to a three-inch pot, four to a six-inch pot. Can be grown in water. See page 3, under Hyacinths.

Each 10c; doz. \$1.00; 100 \$7.50

Sacred Chinese Lily

A variety of Narcissus, bearing in lavish profusion chaste flowers of silvery white with golden cups, which are of exquisite beauty and entrancing perfume.

These grow well in pots of earth, but are more novel and beautiful grown in shallow bowls of water, with enough pebbles to prevent them from tipping over when in bloom. A dozen bulbs started at intervals will give a succession of flowers throughout the winter. Each 20c; doz. \$2.00; postpaid.



China Lily

For growing Narcissus and Hyacinths in glasses, see pages 3 and 8

LILY OF THE VALLEY

Extra Select Pips

One of the most satisfactory and charming Spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, are perfectly hardy, and will succeed in shady situation. They can be left undisturbed in the open ground, where they will increase from year to year, and are most charming in beds or borders around the lawn. For outdoor planting and Winter forcing, pips are ready December to March.

SELECTED PIPS, for forcing indoors or planting outside. **Doz. 75c; 100 \$5.00**

SELECTED CLUMPS, for outdoor growing. **Each 25c**

TIGER LILIES

TIGRINUM SPLENDENS (Improved Single Tiger Lily)—Has very large flowers of excellent form, color orange-salmon, with dark spots; hardy and a free bloomer.

Large bulbs.....**Each 20c; doz. \$2.00**

OREGON LILIES

WASHINGTONIANUM—(Mt. Hood Lily)—A beautiful Lily, native of Oregon; flower large, of open form, white, tinted with lilac, grows 3 to 5 feet high; very fragrant.

Choice bulbs.....**Each, 20c; doz. \$2.00**



Lily of the Valley

LILIUM LONGIFLORUM—**Giganteum**—Of grand size and substance; superior to the Multiflorum, but forces a little later; especially fine for open ground. **Plant in early December for Easter blooming.**

Mammoth bulbs.....**Each, 35c; doz. \$3.50**
Large bulbs.....**Each, 30c; doz. 3.00**

LILIUM FORMOSUM

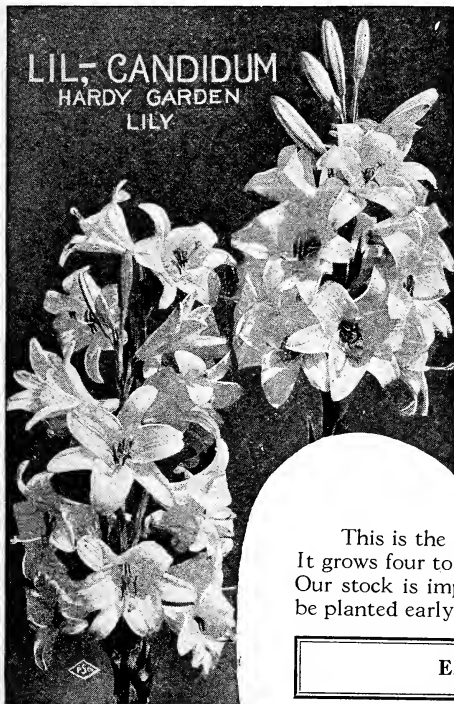
LILIUM FORMOSUM is the best of the Longiflorums being early free blooming, healthy and vigorous, but for best results should not be planted earlier than November for Easter blooming. As too early planting produces a tendency to irregular growth and poor flowers. But if handled right, later plantings produce uniform thrifty plants of a desirable height that flower freely. Our stock is of the best quality obtainable and is ready for delivery in September.

Mammoth bulbs.....**Each, 35c; doz. \$3.50**
Large bulbs.....**Each, 30c; doz. 3.00**

Lilium Candidum

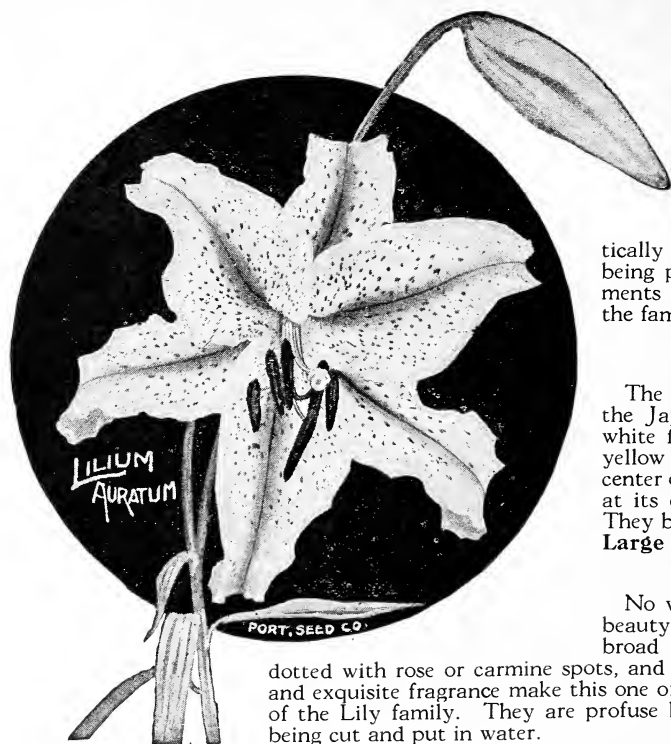
This is the ever popular, fragrant snow white, hardy garden Lily. It grows four to five feet high and blooms in the open ground in June. Our stock is imported from the Azores, the finest obtainable; should be planted early.

Each 30c; doz. \$3.00



EASTER SUNDAY, APRIL 1st, 1923

LILIES—JAPAN



Lilies planted outdoors during the fall or early spring flower each year from June to October.

After bulbs are set out they should remain undisturbed for five or six years. They will increase in size, beauty and number of flowers, with practically no attention, our coast climate being perfectly suited to their requirements and once established, they rival the famous product of Japan.

LILIUM AURATUM (Golden Banded Lily)

The handsomest and best known of the Japan Lilies. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a gold band fading at its edges into white; very fragrant. They bloom from June to October.

Large bulbs . . . Each, 25c; doz. \$2.75

LILIUM SPECIOSUM

No words can overstate the brilliant beauty of this charming class. Its six broad white, or pink petals thickly dotted with rose or carmine spots, and the graceful form, brilliant color and exquisite fragrance make this one of the most effective and desirable of the Lily family. They are profuse bloomers and last for days after being cut and put in water.

SPECIOSUM ALBUM—Pure white, flowers freely.

Large bulbs Each, 35c; doz. \$3.50

SPECIOSUM RUBRUM—White with dark rose spots. The most popular of the speciosum varieties. A hardy, vigorous grower and free bloomer.

Large Bulbs Each, 30c; doz. \$3.00

Hardy Iris

Hardy Iris is one of the best of the early spring flowers, is hardy everywhere, and if planted in a moist situation or watered freely, will produce magnificent orchid-like blooms of great size and delightful fragrance. Comes in charming color effects in **blues, browns, yellows, purples, white.**

AUREA—Rich chrome-yellow. The finest pure yellow.

FLAVESCENS—Delicate shade of soft yellow; prolific bloomer. Very good for borders. Height 30 inches.

FLORENTINA ALBA—An excellent variety for cutting and an early bloomer. Flowers ivory white tinged with lilac. The Orris Root variety of commerce.

HER MAJESTY—A rich dark bronze color of great beauty.

INGEBORG—Pure white; very large flower.

LOHENGRIN—Beautiful Cattleys rose, a large graceful flower.

MADAM CHEREAU—Large white, dainty frilled blue edge.

PALLIDA DALMATICA—Extra large, lovely true lavender, delightful fragrance, free flowering, fine for massing or as a cut flower.

PRES. THIERS—Mauve. Base striped brown and white.

QUEEN OF MAY—This is very satisfactory and well adapted everywhere. It is a soft rosy lilac, almost pink.

WALHALLA—Lavender; wine red.

Strong Roots, each 25c; per dozen \$2.50

Spanish Iris

These beautiful flowers, with their dainty shape, long stems and charming colors, are becoming more popular each year for forcing. They are largely planted outdoors, as well.

ALEX VON HUMBOLDT—Light blue.

BELLE CHINOISE—Earliest golden yellow.

EMPEROR OF THE WEST—Bronze.

SNOWBALL—Pure white.

PRICES: Each 10c; doz. \$1.00

IRIS

IRIS are of such easy culture and rare beauty that every one should grow them. They make a magnificent display either in clumps or border, blooming profusely and increasing rapidly and are perfectly hardy in the open ground, preferring a moist situation. Plant Fall or early Spring.

Varieties listed below, the best collection to be had in the Northwest.

Japanese Iris (*Iris Kaempferi*)

Japanese Iris are unsurpassed for their brilliant and varied colorings, producing effects that are truly marvelous. Blossoms early summer. Plant three inches deep, about 4 inches part; divide the clumps every two years. Fertilize established beds while dormant, using stable manure, but do not apply after growth starts. Doubles have six petals, singles three.

APOLLO—Single. Very large. Pure white, pink center.

AZURE—Double. Immense flower exquisitely wavy, mauve blue with darker halo surrounding the yellow blotch at base of petals. Very large and fine.

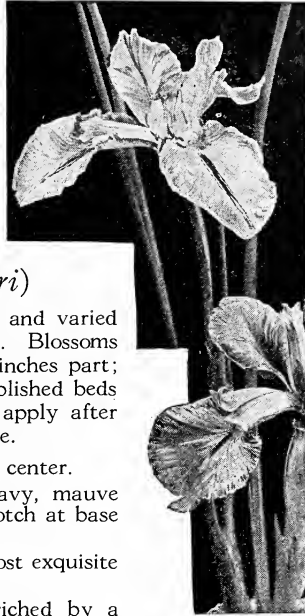
AMETHYST—Single. Very large wavy petals, most exquisite lavender shade.

GOLD BOUND—A fine double pure white, enriched by a creamy glow from the gold banded center.

MT. HOOD—Double. Light blue, shaded darker, bright orange center.

P. C. DE ROHAN—Double. Light purple, shaded violet, center dark purple.

PRICES: Strong roots, each 35c; per dozen \$3.75, F. O. B. Portland; if mailed, postage extra. **DOUBLE AND SINGLE MIXED**—No named varieties—All colors and shades. Each 15c; doz. \$1.60; 100 \$12.00.



JAP IRIS

Very Hardy

You should add them to your garden

T. S. WARE—Double. Reddish violet veined white. Center white, slightly marked lemon.

VENUS—Pure white.

PERENNIAL BORDER AND BEDDING PLANTS

WE offer well-rooted specimens that can be safely packed and promptly delivered in perfect condition. If you contemplate large plantings or special effects, let us know your plans and requirements. We can supply in any quantity for every requirement at lowest prices.

By proper arrangement cut flowers and a grand garden display can be obtained throughout the season. The great advantage in planting perennials is their permanency and the fact that they require so little care.

PLANTS, Each 20c; doz. \$2.00, F. O. B. Portland; if mailed, postage extra.

Plants marked by Star (*) are for Rockeries and Borders.

ACONITUM — (Monkshood) — Aconites form bushy clumps, and are invaluable for planting under trees or in shady positions.

Wilsoni—4 to 6 feet high, large dark blue flowers, very beautiful.

Fischeri—A dwarf variety growing 18 inches high, with very large pale blue flowers in September and October.

ANEMONE JAPONICA—(Japanese Windflower)—These beautiful Windflowers are among the most important hardy plants. They begin blooming in August continuing in full beauty till cut down by hard frost.

Alba—Large, snowy white.

Rubra—Beautiful rosy red; stamens bright yellow.

Queen Charlotte—Very large semi-double flowers of La France pink.

Whirlwind—Large, semi-double, pure white flowers.

★**ALYSSUM**—(Saxatile Compactum, Basket of Gold)—An indispensable plant for the rockery or border, growing 1 foot high and producing in May masses of bright yellow flowers.

★**ARABIS**—(Rock Cress) *Alpina*—One of the most desirable of the very early spring flowering plants. Especially adapted for edging and for rock gardens. White.

ANCHUSA ITALICA—(The Improved Italian Alkanet)—The Improved Alkanets justly take a front rank among early summer flowering perennials. Their blooming period covering May and June at which time there are few plants of this size and shade in bloom.

Droptmore Variety—Rich gentian blue.

★**ARMERIA**—(Sea Pink or Thrift)—Attractive dwarf plants that will succeed in any soil, forming evergreen tufts of bright green foliage. Flowers appear in dense heads, on stiff wiry stems from 9 to 12 inches high.

Pink and White.

Hardy Perennial Garden Plants—Continued

Plants marked by Star (*) are for Rockeries and Borders.

ARTEMISIA—(Lactiflora, Hawthorn scented)—This comparatively new introduction from China is a most effective flowering plant with erect stems $3\frac{1}{2}$ to $4\frac{1}{2}$ feet high clothed with elegantly cut dark green foliage and terminated by panicles of Hawthorn scented creamy white Spiraea-like flowers.

AGUILÉGIAS OR COLUMBINES—The Columbines are one of the most elegant and beautiful of hardy plants producing their graceful spurred flowers on stems rising 2 feet or more above the beautifully divided foliage.

White, Pink, Blue, and Yellow.

ASTERS—(Fall-Flowering Hardy)—(Michaelmas Daisies)—These are among the showiest of our late flowering hardy plants, giving a wealth of bloom during September and October. For the best effect should be planted in masses of one color.

Feltham Blue—A pretty aniline blue, very free; $2\frac{1}{2}$ feet.

Glory of Colwall—Good sized, almost double, ageratum blue flowers; $2\frac{1}{2}$ feet.

Novae Angliae—Bright violet-purple; 4 ft.

★*Alpinus*—Indispensable for the rockery; grows 6 to 10 inches high, and bears large showy bluish-purple flowers in May and June.

★*Sub-Coruleus*—Twelve inches high, bearing in June and July massive bluish-violet flowers 3 inches in diameter.

BELLIS PERENNIS—(English Daisy)—Improved double flowering, white or pink.

BLEEDING HEART, OR SEAL FLOWER—An old-fashioned favorite; its long racemes of graceful heart-shaped flowers are always attractive. **Each, 75c**

BOCCONIA—(Cordata, Plume Poppy or Tree)—Celandine—A noble, hardy perennial, beautiful in foliage and flower, admirably adapted for planting in the shrubby borders; 6 to 8 feet high. Flowers of a creamy white color during July and August.

BOLTONIA—(False Chamomile, Catisquama)—Among the showiest of our native hardy perennial plants with large single white Aster-like flowers.

CENTAUREA—(Hardheads or Knapweed)—Of easy culture, delighting in an open, sunny position. Not only makes a fine display in the border, but is excellent for cutting.

Dealbata—Distinct bright rose colored flowers; July to September; 18 inches.

Macrocephala—Large thistle-like golden-yellow flowers. July and August, $3\frac{1}{2}$ feet.

CEPHALARIA—(Roundheads)—Alpina—Attains a height of 6 feet, bearing in June and July delicate sulphur yellow flowers.

★**CERASTIUM**—(Snow in Summer)—Tomentosum—A desirable low-growing plant with silvery foliage and white flowers in June, suitable for the rockery, or for covering graves.

CHELONE—(Shell Flower)—Stately and handsome perennials, growing about 2 feet high, and bearing numerous spikes of large flower heads during the summer and fall.

Glabra Alba—Terminal spikes of creamy white flowers.

Lyonii—Heads of showy purplish-red flowers.

CAMPANULAS OR BELLFLOWERS—Indispensable, hardy garden flowers, of much variety of form.

★*Carpathian Harebell*—A pretty species growing in compact tufts, not exceeding 8 inches high, flowers clear blue and white.

Canterbury Bells—This popular variety in white, pink and blue.

Peach Bells—Blue and white flowers during June and July; 2 feet.

Chimney Bellflower—The most conspicuous of all Campanulas, 4 to 6 feet high, crowded with large porcelain-blue flowers in August.

COREOPSIS—(Lanceolata Grandiflora)—One of the most popular hardy plants. The flowers are a rich golden-yellow and invaluable for cutting; blooms during the entire summer and autumn.

SHASTA DAISY—(Alaska)—Immense, fluffy white blooms, with golden eyes, from July to late Fall; fine for cutting; splendid border plants.

DELPHINIUMS OR HARDY LARKSPURS—One of our very best perennials.

Belladonna—The freest and most continuous blooming of all. A clear turquoise blue.

Bellamosum—This is a dark blue form of the popular light blue Belladonna.

Chinense—A very pretty dwarf species with fine feathery foliage and intense gentian blue flowers.

Formosum—The old favorite dark blue with white center, 3 to 4 feet high.

Kelway's Gold Medal Hybrids—Unquestionably the finest strain of mixed hybrids offered. The original stock came from England, and consisted of the best named varieties.

DIGITALIS—(Fox Glove)—The Fox Gloves, old fashioned, dignified and stately, are beautiful in any garden.

Gloxinia-flowered—A beautiful strain of finely spotted varieties.

Lanata—A distinct species, producing dense spikes, 2 to 3 feet high, of odd-looking flowers.

DORONICUM—(Excelsum)—One of the most effective, very early yellow spring flowering perennials.

ECHINOPS—(Globe Thistle)—An interesting thistle-like plant with large globular heads of bluish-white attractive flowers; 3 feet.

ERYNGIUM—(Sea Holly)—Handsome ornamental plants, growing 2 to 3 feet high. The flower heads which are produced from July to September, are useful to cut for vases or to dry for winter bouquets.

Amethystinum—The finely cut spring foliage and the beautiful thistle-like heads are of glistening amethystine-blue.

GAILLARDIA—(Blanket Flower, Grandiflora)—One of the showiest hardy plants growing about 2 feet high, combination coloring of yellow, brown, crimson, orange. Blooms until frost.

GAURA—(Lindenheimi)—One of the finest hardy plants with 18 inch length branches of white and pink, Orchid-like flowers.

Hardy Perennial Garden Plants—Continued

Plants marked by Star (*) are for Rockeries and Borders.

GEUM—(Avens)—Pretty border plants, growing about 15 inches high, and producing showy bright-colored flowers from May to July.

Heldreichi—Rich orange-colored flowers.

Mrs. Brodshaw—Large double brilliant scarlet.

GYP SOPHILA—(Baby's Breath)—The Gypsophilas will thrive in any soil in a sunny position.

Paniculata—When in bloom during July and August it forms a symmetrical mass 2 to 3 feet in height, of minute pure white flowers. When cut it is exquisite in combination with the other flowers.

★*Repens*—An elegant trailing plant for the rockery, with clouds of small white flowers in July and August.

HELENIUM—(Sneeze Wort)—All of these are desirable border plants, succeeding in any soil in a sunny location.

Rubrum—Robust growing; 3 to 4 feet high, with bright terra-cotta red flowers.

Autumnale—Golden-yellow flowers, 5 to 6 feet high.

Riverton Beauty—Rich lemon-yellow, with large purplish-black cone; August and September; 4 feet.

Riverton Gem—Old gold, changing to wall-flower red; 3½ feet.

HELIANTHUS—(Hardy Sunflowers)—The perennial Sunflowers are among the most effective hardy plants for planting among shrubbery, or as clumps on the lawn.

Giganteus—One of our native varieties, with bright canary-yellow flowers in September and October; 6 feet.

Maximiliana—The latest of all, perfecting its fine golden-yellow flowers in long, graceful sprays during October; 5 to 7 feet.

Multifloras Fl. Pl.—(Double Hardy Sunflower)—Large double Dahlia-like golden-yellow flowers; 4 feet.

★**HELIANTHEMUM**—(Rock or Sun Roses)—Exceedingly pretty low growing evergreen plants, and during July to September, are quite hidden by a mass of bloom.

Heliopsis—(Orange Sunflower)—Similar in general habit to Helianthus but commencing to flower earlier in the season.

Pitcheriana—A desirable variety. The flowers are of a beautiful deep golden-yellow.

★**HEUCHERA**—(Alym Root or Coral Bells)—Most desirable dwarf, compact bushy plants of robust constitution and easy culture, growing 1½ to 2 feet high, and bearing during July and August, loose, graceful spikes of flowers.

Sanguinea—A very free-flowering coral-red.

HYPERICUM—(St. John's Wort)—A most desirable border plant, of free and graceful habit, producing long slender, much branched stems. Large size, measuring from 2 to 2½ inches in diameter; in color a rich golden-tellow; 2 feet high.

HOLLYHOCKS—Stately, majestic, hardy plants, from 6 to 8 feet high, which are a necessary part of every old-fashioned garden. Double white, double yellow, double maroon, double rose, double red, double mixed and all colors.

★**IBERIS**—(Hardy Candytuft)—Most desirable dwarf plants, 8 to 10 inches with evergreen foliage, which is completely hidden with dense heads of pure white flowers early in the spring.

LINUM—(Flax)—Flavum—A pretty plant for the rockery or front of hardy border, producing an abundance of yellow flowers in July; 12 to 18 inches.

Perenne—A desirable plant for the border or rockery, growing 1½ feet high, with light graceful foliage and large blue flowers all summer.

LUPINUS—(Lupine, Polyphyllus)—Effective plants, producing large spikes of flowers; blooming in May and June.

Polyphyllus—Clear blue.

Albus—A white variety of above.

Rosea—A combination of light and dark shades of pink.

MONARDA—(Bergamott)—Showy plants growing from 2 to 3 feet high, succeeding in any soil or position, blooming during July and August.

Didyma Cambridge Scarlet—Brilliant crimson scarlet.

★**MYOSOTIS**—(Forget-me-not)—A variety that is hardly ever out of flower, useful in a shady spot in the border. Victoria dark blue.

PAPAVER ORIENTAL—(Oriental Poppy)—For brilliant coloring nothing equals them during their time of flowering; May and June.

Goliath—Flower rich scarlet.

Perry's White—Pure satiny white with brilliant crimson marking at base of petals.

Salmon Queen—Salmon pink.

PENTSTEMON—(Beard Tongue)—Most useful showy perennials, either for the border or rockery.

Gloxinioides—(Sensation)—A beautiful strain, bearing spikes of large Gloxinia-like flowers in a great variety of bright colors, including rose, cherry, crimson, purple, lilac, etc.; 2 feet high.

PHYSOSTEGIA—(False Dragon-Head)—One of the most beautiful of midsummer flowering perennials, forming dense bushes 4 to 6 feet high, not unlike a gigantic heather.

Virginica—Bright but soft pink.

Alba—Pure white; very fine.

HARDY PHLOX—Among hardy perennial plants no class is of more importance than the Phloxes, succeeding in almost any soil and position, and flowering through a long season, and while they will continue in good condition and flower freely for many years without attention, yet they respond quickly to and are improved by liberal cultivation.

Albion—Pure white, with a faint red eye.

Beacon—Brilliant cherry-red.

Champs Elysee—A bright rosy-magenta; very effective.

Eclairer—Brilliant rosy-magenta with lighter halo.

Prof. Virchow—Bright carmine, overlaid with orange scarlet.

Rheinlander—A most beautiful salmon-pink, with flowers and trusses of immense size.

R. P. Struthers—Bright rosy-carmine, with claret-red eye.

Hardy Perennial Garden Plants—Continued

Plants marked by Star (*) are for Rockeries and Borders.

Thor—A most beautiful and lively shade of deep salmon-pink suffused and overlaid with a scarlet glow. A light, almost white halo surrounds the aniline-red eye.

Coquelicot—Scarlet with crimson eye.

Diadem—Large flowering pure white dwarf.

Europa—Medium, immense trusses of pure white with distinct crimson eye.

Goliath—Truly a giant in growth, color bright crimson carmine, deeper eye.

Geo. A. Strohlein—Medium bright scarlet with crimson-red eye, does not bleach.

Mrs. Jenkins—The best tall early white for massing.

Selma—Tall, large flower; pale rose-mauve with claret eye.

Sunshine—Dwarf, large aniline-red with crimson-red eye and light halo.

Von Lassburg—Medium, one of the largest flowered purest whites in cultivation.

★ *Phlox Subulata*—(Moss or Mountain Pink)—An early spring-flowering type with pretty moss-like evergreen foliage, which during the flowering season is hidden under the masses of bloom. An excellent plant for the rockery, or the border, and invaluable for carpeting the ground or covering graves.

★ *Alba*—Pure white.

★ *Lilacina*—Light lilac.

★ *Rosea*—Bright rose.

NEW PERPETUAL FLOWERING HARDY PINKS—(*Dianthus Allwoodii*)—This is a most important addition to our list of perennial plants. They are perfectly hardy and flower continuously from early spring until late in the autumn; the flowers are much more substantial and larger than the old type of Hardy Pinks, and are borne on long stems suitable for cutting; deliciously clove-scented.

Harold—A splendid large double pure white of very symmetrical form and great substance.

Jean—Pure white with a deep violet-crimson center, a distinct handsome flower.

Mary—Pale rose-pink with light maroon center.

Robert—A delicate shade of old rose with light maroon center; very free.

★ **HARDY GARDEN PINKS**—Old favorites bearing their sweet, clove-scented flowers in the greatest profusion during May and June. 1 foot.

Elsie—Bright rose with maroon center.

Gertrude—Deep rose color.

Snow—A fine white.

White Reserve—A never-blooming pure white.

★ **POLEMONIUM**—(Jacob Ladder) Reptans—Useful border plants, about 12 inches high, succeeding best in a partially shaded position; deep green, finely cut foliage, and spikes of showy blue flowers in May and June.

PLATYCODON—(Balloon Flower or Japanese Bell Flower)—The *Platycodon* are closely allied to the *Campanula* and form neat, branched bushes of upright habit, 2 to 2½ feet high, producing blue or white flowers from July to October.

Grandiflorum—Deep blue cupped, star-shaped flowers.

Album—A white-flowered form of the above.

POTENTILLA—(*Cinquofoil*)—Charming plants for the border, with brilliant single or double flowers that are produced in profusion from June to August; 18 inches.

Atrasanquina—Rich crimson, single.

Formosa—Single rose-red.

William Rollison—Mahogany suffused orange; double.

PYRETHRUM—(*Persian Daisy—Hybridum*)—Of easy culture in any garden soil where there is good drainage and full exposure to the sun. They prefer to be undisturbed for 2 or 3 years, bloom in June.

PRIMULA VERIS—(*English Cowslip*)—These are one of the most beautiful and interesting of our early spring flowers.

Primrose—Acaulis, grossblumige.—Large flowering *Elatiar*.

Duplex—Double.

RUDBECKIA—

Golden Glow—A well known popular plant, a strong robust grower, attaining a height of 5 to 6 feet and produces masses of double golden-yellow Cactus Dahlia-like flowers from July to September.

Maxima—A rare and attractive variety, growing 5 feet high, with large glaucous green leaves and bright yellow flowers.

RANUNCULUS—(*Crow Foot, Buttercup*)—A double-flowered form of our common Buttercup; 2 feet. May and June.

SALVIA—(*Meadow Sage—Axurea*)—Grows 3 to 4 feet high producing August and September pretty sky-blue flowers in the greatest profusion.

Greggi—Makes a shapely, bushy plant about 2 feet high, and from July to late October bears masses of rich brilliant carmine flowers; requires protection in Winter.

★ **SAXIFRAGA**—(*Megasea*)—These will thrive in any kind of soil and in any position; grow about 1 foot high and are admirable for the front of the border or shrubbery, deep green foliage. Rose-pink flowers which appear very early in the spring. We offer six choice varieties.

SCABIOSA—Handsome border plants, succeeding in any ordinary soil if well drained and in a sunny location. They last a long time when picked and placed in water.

Caucaseia—(*Blue Bonnett*)—A soft and charming shade of lavender, and commences to bloom in June, throwing stems 18 to 24 inches high until September.

Taponica—Lavender-blue flowers, from July to September; 2 feet.

★ **SEDUM**—Useful and pretty plants for the border, producing their interesting flowers during late summer and fall.

★ *Spectabile*—One of the prettiest erect-growing species, attaining a height of 18 inches, with broad light-green foliage and immense heads of handsome showy rose-colored flowers.

STACHYS—(*Wound Wort*)—*Betonica Grandiflora*—(*Betony*)—Large flowers of purplish-rose; June and July; 15 inches.

Hardy Perennial Garden Plants—Continued

Plants marked by Star (*) are for Rockeries and Borders.

STATICE—(Great Sea Lavender)—A most valuable plant either for the border or rockery with tufts of leathery leaves and immense candelabra-like heads, frequently 1½ feet high and 2 feet across, of purplish-blue minute flowers during July and August; these if cut and dried last in perfect condition for months.

STOKESIA—(Cornflower Aster)—A beautiful native plant growing 18 inches high, bearing freely from early in June until September, its handsome lavender-blue and white cornflower-like blossoms.

Gyanea—Bright lavender-blue.

Alba—A pretty pure white variety of above.

SWEET WILLIAM—(*Dianthus Barbatus*—London Tufts)—A well-known attractive, free flowering hardy perennial, producing in early summer a splendid effect in beds and borders, with their rich and varied flowers.

Newport Pink—The prettiest color among Sweet Williams, a lovely salmon or watermelon pink.

Mixed—Containing all colors.

TRITOMA—(Red-hot Poker or Torch Lily)—The early free and continuous blooming qualities of this variety has made it one of the great bedding plants, 3 to 4 feet high.

VALERIANA—(*Valerian*—*Coccinea*)—Showy heads of reddish flowers; June to October; 2 feet.

Alba—A white-flowered form.

Officinalis—Produces showy heads of rose-tinted white flowers during June and July, with delicious strong heliotrope odor; 3 to 4 feet. Hardy Garden Heliotrope.

THALICTRUM—(Meadow Rye)—Very graceful, pretty flowered plants with fine cut foliage; great favorites for planting in the hardy border.

Dipterocarpum—Though introduced some years ago, this beautiful species is yet but little known, the flowers are of charming shade of violet-mauve, which is brightened by a bunch of lemon-yellow stamens and anthers. Four feet high.

Glaucum—Fine cut glaucous foliage; bronzy-yellow flowers in June; 2 feet.

VIOLAS OR TUFTED PANSIES—(*Viola Cornuta*)—The improved forms of *Viola Cornuta* are rapidly growing in favor. They flower continuously for nearly eight months in the year, and while their flowers are not so large as those of the pansy, their bright colors and flariferousness make them welcome additions to any garden.

Blue Perfection—Deep purplish-blue.

WALLFLOWERS—The old fragrant favorite; mixed colors, including yellow, brown, etc.

VERONICA—(*Speedwell*—*Amethystina*)—Amethyst-blue flowers in June and July; 2 feet.

LONGIFOLIA—(*Japanese Speedwell*)—Subsessilis—The showiest and best of the Speedwells; forms a bushy plant 2 to 3 feet high with long dense spikes of deep blue flowers from the middle of July to early in September.

★*Repens*—A useful rock or carpeting plant, with light-blue flowers.

CINNAMON VINES are the most desirable, easiest grown climbers in the world. They are from China—the land of wonders. Their abundant blossoms perfume the air for a long distance. No words can describe their delicious fragrance. Perfectly hardy—thriving in all soils, in sun or shade, wet or dry. No insects, blight or disease of any kind ever troubles them, no winter harms. Once planted they will grow a lifetime.

They will quickly climb 30 feet or more, and surround your windows and cover your porches, walks, etc., with a mass of Vines—covered with pretty heart-shaped leaves and a profusion of dainty, white, sweet-scented Flowers, making them perfect "Bowers of Beauty."

See page 26 for cut and prices.

ASTER PLANTS

In season we offer fine large plants of all Standard Varieties. These are well rooted and sure to give good results.

Our **DIAMOND LAWN GRASS** makes an Evergreen, Velvety Turf

ANNUAL VINES—*Cobaea Scandens*, Wild Cucumber, Canary Bird, Morning Glory, Nasturtiums, etc.
SEEDS AND PLANTS IN SEASON.

Diamond Plant Food

For Ferns, Palms and House Plants. Clean, Odorless, Highly Concentrated. A complete, powerful fertilizer, wonderfully invigorating to all plants, producing luxuriant foliage and larger and more brilliant flowers. A 40c package will feed a dozen large plants a whole year. Special instructions on each package.—Postpaid 50c.

CORY'S THORNLESS BLACKBERRIES are of very recent introduction. They are all and more than any one has claimed for them. We candidly believe that in the near future the majority of blackberries grown, both for home use and for shipping and the canneries will be of the Thornless sort. You should try a few of these. See page 38.

FLORISTS' SUPPLIES

We carry a complete line of high-grade stocks at prices so reasonable that you cannot afford to "Go East" for them. Write us your requirements or send in a trial order.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG



PAEONIES

Double Herbaceous

The development and increase in popularity of the Peony has been unparalleled among flowers, and the profusion and duration of bloom, combined with handsome, massive foliage, accommodating habit, and easy culture, render them one of the most popular hardy plants grown for lawn and garden decoration.

Peonies are always free from disease and insects do not bother them. They are hardy, thrifty growers, bloom freely, and nothing will add more to the beauty and attractiveness of the lawn.

PRICES: 65c each; \$7.00 per dozen, F. O. B. Portland; if mailed, postage extra.

ALBERT CROUSSE—Immense, full formed bloom; salmon-pink.

DORCHESTER—Hydrangea pink. Very late. Good.

DUCHESS D'ORLEANS—Deep pink, center tinted salmon. Midseason.

DUKE OF WELLINGTON—Large, sulphur white. Midseason to late.

EDULIS SUPERBA—Brilliant pink. Best Decoration Day peony.

ELEGANTISSIMA—Light, cherry pink. Midseason. Good cut flower.

FELIX CROUSSE—Brilliant red, flamed center. Extra firm; very double.

FESTIVA MAXIMA—Large, early, white. Carmine dots in center.

GOLDEN HARVEST—Blush white, tipped with light crimson.

MARIE LEMOINE—Large, very late, sulphur white.

MASTERPIECE—Brilliant Tyrian-rose. Free bloomer.

MONS. JULES ELIE—Immense flower. Glossy pink. Fragrant.

OFFICINALIS ALBA—Opens pink soon changing to white. Earliest.

OFFICINALIS RUBRA—The early red flowering peony.

QUEEN VICTORIA—White, blush tint. Great Decoration Day flower.

ROSEA—Late red variety.

CHINESE CINNAMON VINES (See picture, page 26)

No lover of the beautiful should miss planting Cinnamon Vines. They have a charm unknown to all other climbers.

SWEET VIOLETS

Price each 20c; 6 sorts, \$1.00, Postpaid

Single

BARONESS ROTHSCHILD—Similar to Princess of Wales, but blooms more freely.

CALIFORNIA—Very showy flowers of enormous size, deep violet blue; deliciously fragrant.

PRINCESS OF WALES—Gigantic flowers, of a very rich shade of blue, extremely fragrant.

Double

LADY HUME CAMPBELL—Beautiful light blue, very free-blooming, exquisitely fragrant.

MARIE LOUISE—A constant bloomer, producing large flowers, lovely deep violet purple.

SWANLEY WHITE—The finest and best double white violet in cultivation.

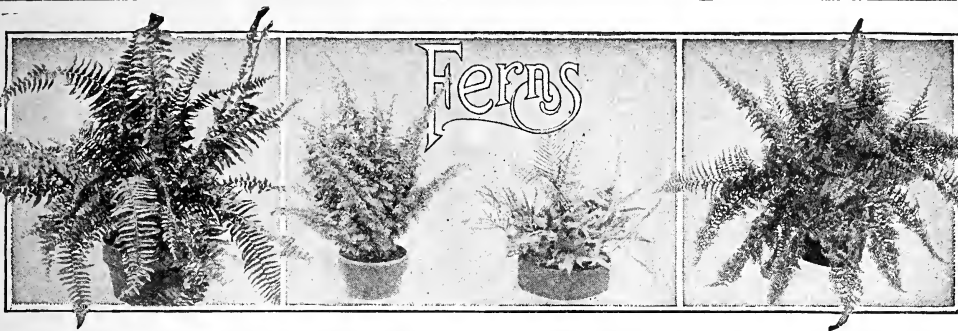
BEGONIAS—(Tuberous Rooted)—From their early first blooming until cut down by frost, Tuberous Begonias display a mass of most gorgeous and brilliant coloring. They are distinct and unique in wonderful shades of yellow bronze, white, reds, pinks, with thick waxy petals and grand ornamental foliage, never failing to excite the wonder and admiration of all who see them.

Each, 20c; doz. \$2.00

OREGON GIANT PANSIES—Our Giant Plants can not be compared to any other Giant Pansies.
By mail 75c doz.

OREGON GIANT PANSY SEED—We offer a limited amount of this hand selected seed.
Per pkt. 25c; large trade pkt. \$1.00

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG



WE OFFER a splendid list of Ferns, including some of the newest varieties as well as the older sorts. Florists wishing stock of the new varieties, write for prices.

ORNAMENTAL FERNS

Price, small plants, 30c; postpaid, from 4 in. pots, 75c; 5 in. \$1.50, postpaid.

Specimen plants, \$1.50 to \$3.00, F. O. B. Portland.

BOSTON FERN—This is the original and well known type of "Sword Fern."

TEDDY JUNIOR—New Dwarf Fern. A sport from the famous Roosevelt Fern. Compact in form, and a rapid grower, producing about four times as many fronds as any other fern.

N. ROOSEVELT—Resembles Boston Fern, produces more fronds, making a bushier and a wonderfully decorative window plant.

OSTRICH PLUME FERN—(Nephrolepis Whitmani)—Beautiful new sport from the well known Boston Fern.

ASPARAGUS FERNS

SPRENGERI—(Emerald Feather)—This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. Beautiful sprays of lovely green feathery foliage. It makes a charming ornamental plant for the window or conservatory in Winter. 20c each, postpaid; large plants by express, 35c and 50c each.

PLUMOSA—(Japanese Lace Fern)—A finer and more delicate plant than the Sprengeri, but hardy and easily grown. Very satisfactory for window and house culture. An extremely graceful window climber, bright green feathery foliage, as fine as the finest silk or lace. No finer house plant than this. 20c each, postpaid; large plants by express, 50c and 75c each.

SPECIAL—Six Fine Table Ferns for \$1.25

Price 25c each; 6 sorts for \$1.25. Extra large plants, 40c each, postpaid.

ADIANTUM CUNATEUM—(Maiden Hair Fern)—A very beautiful and graceful fern.

ASPIDIUM TSUSSIMENSE—Valuable for fern dishes; of dwarf graceful habit.

PTERIS ARGYREA—(The Silver Fern)—Beautiful variegated leaves; silvery white on a light green ground.

CYRTOMIUM FALCATUM—(The Holly leaved fern)—Hardy, dark green foliage.

PTERIS CRETICA ALBO-LINEATA—A pretty and useful variegated variety.

PTERIS WILSONI—A very pretty and useful fern. Green leaves with the ends very peculiarly crested. Beautiful sort for fern dishes.

WINTER-BLOOMING POT PLANTS

PERSIAN CYCLAMEN, GIANT FLOWERED—There is probably no more ornamental flowering plant for greenhouse or parlor culture than the Cyclamen. Circular fleshy leaves of a rich metallic green variously marked with silvery stripes. The flowers appear at the approach of cool weather and continue blooming throughout the winter. Colors, red, pink and white.

PRIMROSES, NEW GIANT OBCONICA—A lovely perpetual blooming primrose. The crisp green leaves spring up luxuriantly amid which appear, all season through, stout little stalks, each surmounted by a pretty cluster of lavender-pink flowers several inches across. One of the finest winter blooming house plants for a cool room.

PRIMROSES, CHINESE FRINGED—These are easily grown in a cool room, delighting in a light sandy soil. The flowers are fringed, of fine size, produced in trusses well above the fresh lively green foliage which of itself is very handsome. Can be supplied in three colors, red, pink, white.

Price 25 cents each. Larger plants, 40 and 60 cents each, postpaid

REX BEGONIAS—Grown for the beauty of the foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss. The most ornamental of window plants.

Price 25c each.

Diamond Plant Food For Ferns, Palms and House Plants. Clean, Odorless, Highly Concentrated. A complete, powerful fertilizer, wonderfully invigorating to all plants, producing luxuriant foliage and larger and more brilliant flowers.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG



DIAMOND QUALITY ROSES are large, sturdy, two-year-old, field-grown roses that will give you splendid flowers the first season. They are true to name and our list includes the best of the well known popular varieties, the most meritorious of recent novelties and the Gold Medal roses of famous European growers.


Planting and Care

In our favored section, roses attain a perfection seldom equaled, but you cannot expect them to thrive and bloom unless you care for them. We offer the following simple suggestions:

SOIL—Any good, well-drained garden soil, enriched with fertilizer, will give excellent results. If heavy clay soil mulch well with burnt earth and manure, rotted sod or leaf mold.

FERTILIZER—Our odorless fertilizer, Bone Meal, Tankage of Blood, will give excellent results and should always be applied after the plants start their growth.

WATERING—When setting out, water regularly until roots are well set; then about once a week unless the ground is very dry; in such cases more often. Do not get the foliage wet after a hot day. This causes mildew.

 We offer a splendid assortment of popular roses and the best of the new ones, and can secure any variety in commerce, TRUE to NAME.

Rare New Garden and Exhibition Roses

Fine 2-year Dormant Plants, not prepaid, \$1.00; \$10.00 per doz.

COLUMBIA—(H. T.)—One of the greatest of recent introductions. The color is a true pink, deepening as it opens to a glowing pink. A striking peculiarity of this rose is that the shades all deepen as the rose opens. Single buds on long stems, splendid for cutting.

COUNTESS CLANWILLIAM—(H. T.)—A distinct and charming rose, producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers. Of strong, vigorous habit.

CLEVELAND—Vigorous stout branching growth with very large and handsome foliage absolutely mildew-proof. Flowers of the very largest size, very full and beautifully formed. Remarkable for its finely shaped buds unfolding into a massive bloom of great substance. Color a new shade of old rose heavily flushed reddish copper with base of petals deep coppery yellow. The buds display a distinct metallic sheen entirely new to roses and charming in its originality.

TIPPERARY—Beautifully formed buds of a bright canary yellow, produced with great freedom. A fine new Irish rose with all the requisites of a good garden variety.

FINALLY—Keep the surface well worked around the plants. This is as necessary as water or fertilizer. When planting cut back freely, and the bush will recover quickly.

SHIPPING—We always send all our two-year-old rose bushes charges collect by express or freight, packing them so they will carry safely even though they should be on the road for two weeks or more.

If necessary, we can send small two-year-old bushes by mail at an additional cost to cover postage, but in such cases we always prune the tops and roots ready for planting.

CONSTANCE—Rich orange yellow, distinctly streaked and splashed with crimson, long pointed buds.

GORGEOUS—Strong, vigorous growing, with handsome olive-green foliage. Flowers very large, finely formed, produced freely on stout canes. Color deep orange-yellow, heavily veined with reddish copper.

LOS ANGELES—Described by the originator as "a flame pink toned with coral and shaded gold at base of petals." Buds long, pointed and lasting. The flowers are very large and the beauty of coloring does not fade. Flowers profusely all season on strong shoots. The foliage is a rich, luxuriant glossy green. Two-year field-grown plants. Everyone should have Los Angeles.

LADY HILLINGDON—(T)—Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting. Foliage luxuriant. A fine forcing or garden rose, excellent for cutting.

RADIANCE RED—(Red Radiance)—A glowing crimson sport of Radiance with all the magnificent qualities of the parent; the enormous globular flowers on heavy canes are a sight to be long remembered.

BEAUTIFUL ROSES OF RECENT INTRODUCTION

The following are the recent novelties and Gold Medal roses that have proven their merit and are now generally in great demand.

Fine 2-year Dormant Plants, not prepaid, \$1.00; \$10.00 per doz.

CRIMSON EMBLEM—A superb new Irish rose of a rich and glorious crimson color heavily shaded maroon. Buds and flowers of superb form, of fine size and produced on fine long stems, admirably adapted for cutting. Wonderful mildew-proof foliage.

FRANZ DEEGAN — (H. T.) — This beautiful yellow is a fine grower, having the good habit of throwing up numerous heavy canes.

HOOSIER BEAUTY—Crimson scarlet with darker shadings, velvety texture. Bud long and pointed, deliciously fragrant.

KILLARNEY BRILLIANT—A sport from the well known Killarney, a more robust grower, producing fine, large, nice formed buds of a deep rich rose color, lightened towards edge of petals. A fine garden rose.

K OF K—(H. T.)—New. Intense scarlet known. Semi-single with huge petals. Free and continuous bloomer. Sweet scented.

LILLIAN MOORE—(H. T.)—Flowers large and full; pure Indian yellow with slightly deeper center. Buds long and pointed.

LOUISE CATHERINE BRESLAU—(H. T.)—Coral red, shaded chrome yellow, opening to a shrimp pink, shaded coppery orange.

MAD. EDOUARD HERRIOTT—The famous winner of the Daily Mail Prize. The color being terra cotta bronze and geranium red, a new combination of colors in rose.

MADAME MELANIE SOUPERT—(H. T.)—Splendid new orange yellow shaded pink; beautiful, long-pointed buds. Best of its color.

MAD. RAVARY—(H. T.)—Clear orange yellow. Long pointed buds; flowers of fine form.

MARQUIS DE SINETY—(H. T.)—Deep saffron yellow, flushed reddish copper. Flower large, beautiful dark foliage.

MELODY—(H. T.)—Intense deep saffron yellow with primrose edges. Blooms medium size, very fragrant and freely produced.

MRS. AARON WARD—(T.)—A deep golden orange color shading out to lemon or creamy yellow at the edge of the petals. One of the most beautiful roses in existence.

MRS. ALFRED TATE—(H. T.)—Coppery red shaded fawn. Buds are about the longest we have ever seen on an outdoor rose. Will easily rank with the very best.

A splendid gift Rose that your friends will appreciate.



Los Angeles

MRS. CHARLES RUSSELL—(H. T.)—"American Beauty" can compete with it when it comes to counting points. Stems three feet long, stiff and surmounted by grand rosy-pink blooms.

OLD GOLD—(H. T.)—Medium sized flowers of a vivid reddish orange color with coppery red and coppery apricot shadings. A splendid garden rose.

OPHELIA—(H. T.)—Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously.

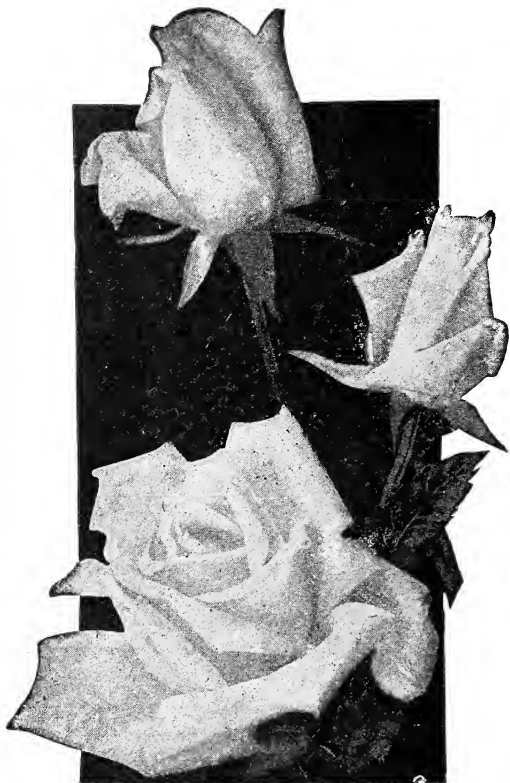
RAYON D'OR—(Pern)—Long pointed buds of deep orange-cadmium smeared claret opening to a rich sunflower yellow. Foliage is deep, glossy green; and free from mildew.

RED LETTER DAY—Brilliant glowing crimson scarlet, opening into medium-sized cactus-shaped flower of curious formation. One of the freest blooming roses extant.

SUNBURST—(H. T.)—The finest of all yellow roses with long pointed buds. Color a superb cadmium yellow with orange yellow center. The foliage is a handsome bronze green.

GRAND GARDEN ROSES

In this list you will find many famous prize winners and some of the most beautiful and popular roses
Two-year-old plants, not prepaid, 75c each; \$8.00 per doz.



ADMIRAL WARD—(H. T.)—A fine bedding variety of vigorous growth and erect branching habit. Spherical blackish red bud opening to large, full, globular flowers of crimson red with shadings of fiery red and velvety purple.

BETTY—(H. T.)—Beautiful coppery rose color, overspread with golden yellow. Fragrant.

BRITISH QUEEN—(H. T.)—Pure white, large, full flowers, opening freely. One of the best white roses for bedding and cutting.

DEAN HOLE—(H. T.)—Beautiful silvery carmine, shaded bright golden pink. Free bloomer.

DOROTHY PAGE ROBERTS—(H. T.)—Coppery pink, suffused with apricot yellow, very free and perpetual, a delightful garden rose.

EDWARD MAWLEY—(H. T.)—Long pointed buds of deep, rich, velvety crimson. Growth is upright and branching with handsome foliage. One of the finest red roses.

HADLEY—A fine American pedigreed rose producing flowers of elegant form and substance. Color rich crimson scarlet shaded maroon. A glorious rose.

HARRY KIRK—(H. T.)—Deep sulphur-yellow passing to a lighter shade at the edge of petals. Robust growth; free branching habit.

LADY ROBERTS—Rich apricot yellow, base of petals coppery red shaded with orange. Nice long sharply pointed buds developing into well formed open flower. A pure bred tea-rose of great merit.

LADY ALICE STANLEY—(H. T.)—Large full flowers of lovely, deep coral, inside pale flesh. A free grower and a profuse bloomer.

LADY ASHTOWN—(H. T.)—One of the finest pinks of a rich, deep, silvery tone; flowers large.

LYON—(Pernetiana)—Beautiful shrimp pink with salmon and chrome yellow shadings. Large coral red buds, beautifully formed. A continuous and free bloomer.

MARGARET DICKSON HAMILL—Delicate straw color, its shell-like petals flushed at the edges on the reverse side with delicate carmine-rose. Strong in growth, free blooming and exquisitely fragrant. Bronzy green foliage on deep crimson leaf-stalks. Very distinct and a gem among new roses. **Each \$1.00**

MILDRED GRANT—(H. T.)—Silvery white flushed delicate pink. By far the largest variety in the H. T. class, and easily the largest rose of good form. In spite of their great size and weight, the flowers are borne perfectly erect, as stems are amply stiff and strong. There is nothing coarse about it as with some large kinds.

MRS ARTHUR WADDELL—A strong rampant-growing Hybrid Tea Rose, with foliage that is ornamental in itself. Large, long pointed buds of a bright rosy scarlet opening into a finely formed flower of a rich apricot or salmon color.

PAPA GONTIER—(T.)—A vivid cherry red color, shaded yellow, reverse of petals crimson.

PRESIDENT W. R. SMITH—A superb new rose of American origin, producing elegant-shaped buds and open flowers. Of an exquisite silvery pink color and sweetly perfumed. Large handsome leathery foliage, on stout thornless canes, each surmounted by a handsome flower. A grand variety for the garden.

RHEA REID—(H. T.)—Flowers large and double; rich dark velvety red; a good red garden rose.

RICHMOND—(H. T.)—Vivid red buds and flowers of the most perfect and desirable form.

WHITE LA FRANCE—(H. T.)—This magnificent rose is a pure white La France, having just a breath of rose-tinted blush.

SOUV DE STELLA GRAY—Long pointed buds of rich golden yellow, dashed with crimson at base of petals. Flowers produced on long stout stems. A beautiful fancy exhibition rose, shown in fine form at the Portland Rose Show on several occasions. **Each \$1.00**

FAVORITE GARDEN AND EXHIBITION ROSES

A choice collection of the best standard varieties, "tried and true," sure to give satisfaction.

Two-year field-grown plants, not prepaid, 65c; doz. \$7.00.

CHATEAU DES CLOS VOUGEAT—Deep velvety crimson shaded with blackish maroon. The nearest approach to a black rose. As if cut from so much velvet, the most wonderful rose in color and texture. A true everblooming variety.

ETOILE DE FRANCE—This famous French Rose probably needs no extended description, for it is already quite well and favorably known. Flowers globular, very full and lasting, borne on stiff stems, well above the foliage. Color, deep velvety crimson of much richness and brilliancy. Remarkable for its strong growth and free blooming qualities.

FLORENCE PEMBERTON—(H. T.)—Creamy white, suffused pink. Very large and full.

GENERAL McARTHUR—(H. T.)—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

GEORGE DICKSON—Very large, full and perfectly formed flowers freely produced. Color, blackish crimson of velvety texture, reverse of petals heavily veined with crimson maroon. A magnificent rose, invaluable for exhibition.

GRUS AN TEPLITZ or VIRGINIA R. COXE—(H. T.)—Color fiery crimson, with a dark velvety sheen, very fragrant. Free blooming. **Each 60c**

J. B. CLARKE—New Irish variety of great merit either for garden decoration or for cut flowers. The color is bright crimson shaded maroon; petals large, well-shaped and of immense substance; flowers very full and perfectly formed. Growth vigorous and tree-branching habit; flowering freely and continuously from early Summer until late Autumn.

JOSEPH HILL—(H. T.)—Salmon pink shaded yellow. Outside petals yellow suffused copper.

JULIET—(H. B.)—A wonderful combination of old gold on the outside of petals and a rich rosy red on the inside. Flowers large, full and delightfully scented.

KAISERIN AUG. VICTORIA—(H. T.)—Elegant, large pointed buds; large, full double flowers; color delicate creamy white; fragrant.

LA FRANCE—(H. T.)—A silvery rose, changing to pink. A general favorite. Sweetest of all roses.

MAMAN COCHET—(T.)—Color is a deep rosy pink, the inner side of the petals silvery rose.

VISCOUNTESS FOLKSTONE—Flowers borne on strong stems, with thick foliage; color delicately tinted flesh, almost white, with beautiful satin finish; one of the most beautiful varieties in cultivation; should be in every collection.

WHITE MAMAN COCHET—(T.)—Immense size, exquisitely fragrant; long, pointed buds.

WINNIE DAVIS—Fine apricot pink shading to the flesh tint at base of petals. A grand hardy garden rose.



Ophelia

Baby Rambler or Dwarf Polyanthus Roses

Two-year-old plants, not prepaid, 75c each

BABY RAMBLER—(Dwarf Bush Type)—Not over 18 inches high, producing large trusses of light crimson flowers; clean dark green foliage.

CECILE BRUNNER—Bright, rose, yellowish in center; very sweet; dwarf polyanthus.

PINK BABY RAMBLER—(Mrs. W. Cutbush)—Clusters of pretty double bright pink flowers; freely produced in panicles; always in bloom.

FINEST HARDY PERPETUAL ROSES

FOR Eastern Oregon and Washington or in sections where the winters are severe, this collection will thrive and bloom freely where the Tea and Hybrid Tea roses would not prove satisfactory.

Two-year-old plants, not prepaid, 60c each; \$6.00 per doz.

AMERICAN BEAUTY—(H. P.)—One of the largest, sweetest and best; rich, rosy crimson, shaded and veined in a most charming manner.

Each 50c

BARONESS ROTHSCHILD—(H. P.)—Flowers of immense size; color bright rosy pink.

Each 50c

CONRAD F. MEYER—A most valuable addition to the list of hardy free-blooming roses. The color is a beautiful pure silvery pink.

Each 50c

DUCHESS OF WELLINGTON—(H. P.)—Intense saffron yellow stained with rich crimson which as the flower develops, become deep coppery saffron yellow. Delightfully fragrant.

Each \$1.00

FRAU KARL DRUSCHKI—(H. P.)—The white American Beauty. Makes splendid buds and immense flowers; perfectly double.

GENERAL JACQUEMINOT—(H. P.)—Bright shining crimson; very rich and velvety.

Each 50c

HUGH DICKSON—(H. P.)—Glowing crimson-shaded scarlet. A strong grower and perpetual bloomer (should be cut back freely).

MADAME CAROLINE TESTOUT—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. One of the handsomest roses and should be planted extensively.

Each 50c



Frau Karl Druschki

MRS. JOHN LANG—(H. P.)—A soft, delicate pink, with satiny tinge; very free flowering.

PAUL NEYRON—(H. P.)—Deep, shining rose, blooms freely, the largest variety in existence.

ULRICH BRUNNER—(H. P.)—Extra large, bold flowers, full and globular; color, rich glowing crimson, elegantly flamed with scarlet.

Each 50c

The Popular Rambler Roses

The Rambler Roses are strong, vigorous climbers, growing ten to twelve feet high in one season.

Two-year-old plants, not prepaid, 75c each; doz. \$8.00

FLOWER OF FAIRFIELD—Brilliant crimson, base of petals white; a splendid grower and a great improvement over the old type.

DOROTHY PERKINS—Polyanthus type; a beautiful bright shell-pink; large double flowers.

RED DOROTHY PERKINS—Fine crimson rambler; glossy green foliage; never troubled with mildew. Flowers very double.

TAUSENSCHON—A lovely shade of soft pink, free and vigorous; splendid foliage.

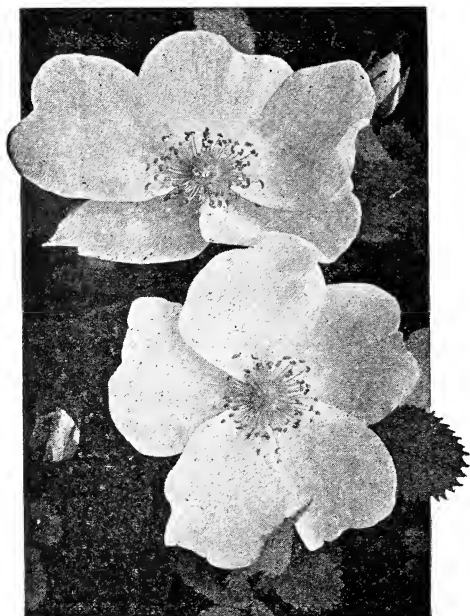
Single Roses

Two-year Only—Not prepaid.

AUSTRIAN COPPER—(A. B.)—A beautiful single rose of bright reddish copper. **Each 50c**

IRISH ELEGANCE—(S.)—Large, single, golden bronze flowers of great beauty, free and constant bloomer, with deep bronze foliage. **Each 85c**

IRISH FIREFLAME—(S.)—Deep orange splashed crimson, changing to fiery orange crimson; buds hold shape long time. **Each 85c**



Single Roses

CLIMBING AND PILLAR ROSES

Two-year-old bushes, field grown, not prepaid, 75c each; doz. \$7.50 (except as noted).



MARECHAL NEIL—A magnificent deep golden yellow variety; so famous as to need no description; finest of its color. **Each \$1.00**

PAPA GONTIER—(T.)—A "Native Sport" from this favorite variety.

AMERICAN BEAUTY—Rich crimson color; delightful fragrance; very free bloomer.

PINK CHEROKEE—Lovely single blossoms, 3 to 5 inches in diameter, saucer shaped and of a beautiful shade of light pink.

CECIL BRUNNER—Clusters of pretty pink flowers, especially beautiful in bud.

GENERAL MCARTHUR—(H. T.)—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

FRAU KARL DRUSCHKI—Identical to bush type; good pillar rose.

LA FRANCE—Identical with the well known La France; vigorous climber.

MAD. CAROLINE TESOUT—Immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

SUNBURST—A splendid climber of the same beauty and freedom of bloom as the bush form of this popular rose. **Each \$1.00**

ALPHABETICAL LIST OF ROSES

Price	Page	Price	Page	Price	Page
Admiral Ward.....	\$0.75 22	Hadley.....	\$0.75 22	Moss Roses.....	\$0.60 24
American Beauty.....	.50 24	Harry Kirk.....	.75 22	Mildred Grant.....	.75 22
Austrian Copper.....	.50 24	Hoosier Beauty.....	1.00 21	Mrs. Aaron Ward.....	1.00 21
Baby Rambler.....	.75 23	Hugh Dickson.....	.60 24	Mrs. Alfred Tate.....	1.00 21
Baroness Rothschild.....	.50 24	Irish Elegance.....	.85 24	Mrs. A. R. Waddell.....	.75 22
Betty.....	.75 22	Irish Fireflame.....	.85 24	Mrs. Charles Russell.....	1.00 21
British Queen.....	.75 22	J. B. Clark.....	.65 23	Mrs. John Laing.....	.60 24
Cecile Brunner.....	.65 23	Joseph Hill.....	.65 23	Old Gold.....	1.00 21
Chateau Des Clos Vougeat.....	.65 23	Juliet.....	.65 23	Ophelia.....	1.00 21
Cleveland.....	1.00 20	Kaiserin Aug. Victoria.....	.65 23	Papa Gontier.....	.75 22
Columbia.....	1.00 20	Killarney Brilliant.....	1.00 21	Paul Neyron.....	.60 24
Conrad F. Meyer.....	.50 24	K of K.....	1.00 21	Pink Baby Rambler.....	.75 23
Constance.....	1.00 20	Lady Alice Stanley.....	.75 22	Pink Cherokee.....	.75 25
Countess Clanwilliam.....	1.00 20	Lady Ashtown.....	.75 22	President W. R. Smith.....	.75 22
Crimson Emblem.....	1.00 21	Lady Hillingdon.....	1.00 20	Radiance Red.....	1.00 20
Dean Hole.....	.75 22	Lady Roberts.....	.75 22	Rayon D'Or.....	1.00 21
Dorothy Page Roberts.....	.75 22	La France.....	.65 23	Red Dorothy Perkins.....	.60 21
Dorothy Perkins.....	.75 24	Lillian Moore.....	1.00 21	Red Letter Day.....	1.00 21
Duchess of Wellington.....	1.00 24	Los Angeles.....	1.00 20	Rhea Reid.....	.75 22
Edward Mawley.....	.75 22	Louise Catherine Breslau.....	1.00 21	Richmond.....	.75 22
Etoile de France.....	.65 23	Lyon.....	.75 22	Souv. De Stella Gray.....	1.00 22
Florence Pemberton.....	.65 23	Mad. Melanie Soupert.....	1.00 21	Sunburst.....	1.00 21
Flower of Fairfield.....	.75 24	Mad. Ravary.....	1.00 21	Tausendschon.....	.75 24
Franz Deegan.....	1.00 21	Mad. Caroline Testout.....	.50 24	Tipperary.....	1.00 20
Frau Karl Druschki.....	.75 24	Mad. Edouard Herriott.....	1.00 21	Ulrich Brunner.....	.60 24
General Jacqueminot.....	.50 24	Maman Cochet.....	.65 23	Viscountess Folkstone.....	.65 23
General McArthur.....	.75 23	Marechal Neil.....	1.00 25	White La France.....	.75 22
George Dickson.....	.75 23	Marg. Dickson Hamill.....	1.00 22	White Maman Cochet.....	.65 23
Gorgeous.....	1.00 20	Marquis De Sinety.....	1.00 21	Winnie Davis.....	.65 23
Grus an Teplitz.....	.60 23	Melody.....	1.00 21		

ORNAMENTAL CLIMBING VINES

Clematis

Clematis is one of the most beautiful and useful climbers. Their magnificent flowers, borne in great profusion in beautiful shades of lavenders, purples, reds and white, make them especially attractive. Clematis requires a rich loamy soil, but manure should not touch the roots. Cut out the weak and surplus branches in the spring, and tie the vine up well to its support.

VILLE DE LYON—Red.

HENRYI—Fine, large, creamy white flowers; a strong grower and very hardy.

JACKMANII—Intense violet purple, with a rich velvety appearance; distinctly veined.

Large plants, each \$1.00, postpaid.

CLEMATIS PANICULATA—A rapid and vigorous grower; it produces sheets of medium-sized, pure white flowers of the most pleasing fragrance; well adapted for covering trellises or fences.

Choice plants, 60c to 75c

Honeysuckle

BELGIAN—Flowers yellow, blotched with red above; blooms all summer, fragrant.

Each 75c

JAPANESE—Evergreen; fragrant flowers, white changing to yellow.

Each 75c

HALL'S—Evergreen, very popular; white turning to yellow.

Each 75c

WHITE TARTARIAN HONEYSUCKLE—Large bushy upright growth, flowers freely and red or orange fruit stays on until late. Fine for backgrounds.

Each 50c to 75c

Jasmine

JASMINE NUDIFLORUM—Branches drooping, enveloped with bright yellow flowers before leaves appear.

Each 60c

JASMINE OFFICINALIS—Free-blooming, pure white flowers, star-shaped; foliage delicate; evergreen.

Each 60c

Ampelopsis

VEITCHEI—"Boston Ivy"—Leaves glossy green, coloring bronze in Fall; flowers small berries deep blue.

Each 75c

QUINQUEFOLIA—"Virginia Creeper"—Common American Ivy.

Each 60c

English Ivy

Large, thick, shining, leathery leaves; evergreen.

Each 35c

BIGNONIA RADICANS—(Trumpet Vine)—Strong climber; deciduous; flowers orange scarlet.

Each 60c

Wistaria

W. SINENSIS—(Chinese Wistaria)—Grows 15 to 20 feet in a season; has long, pendulous clusters of pale blue flowers in May and June and in Autumn. Choice plants \$1.50 to \$2.50

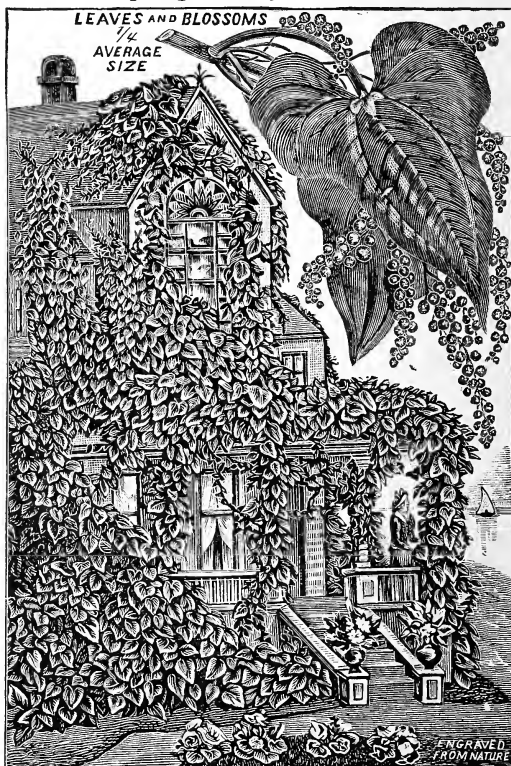
WISTARIA CHINENSIS VARIEGATED—Yellow variegated leaves, pretty after flowering for the beautiful speckled foliage which is very attractive among other green foliage. Flower same as common Chinese Wistaria.

Each \$1.50 to \$2.50

W. MULTIJUGA—Similar to Wistaria Sinensis except in color of flowers which are dark violet blue, borne in very long racemes.

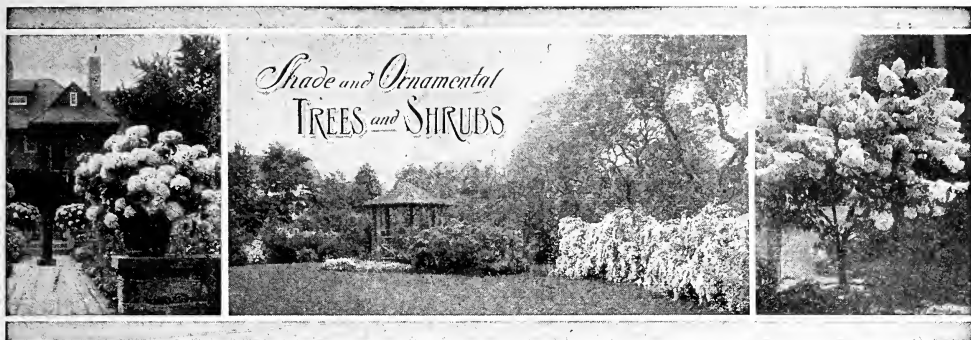
Each \$1.50 to \$2.50

Small plants of Wistaria Chinensis for Spring delivery at 50c to \$1.00.



Cinnamon Vines

Large Tubers 75c each, see pages 17 and 18.



Deliveries can be made from November until May, but orders are accepted at any time for delivery in season.

WE use every precaution to deliver healthy, vigorous stock, but the measure of your success will depend upon the planting and care given, as careless or ignorant handling kills thousands of fine trees and plants every season. Avoid unnecessary exposure of roots to the air. In the case of evergreens that are "balled," **do not remove the burlap.** Plant as received, only cut the string around the top, then **loosen the burlap after the tree is set.** If you cannot plant immediately on receipt, **always "heel" in the trees so their roots may be in contact with good soil.**

Leaving the ground loose after planting has caused tremendous losses that are generally and unjustly blamed to the nurseryman. Another cause of great loss is the wind working the newly set trees loose from the soil. This kills them. Always stake newly set trees if in a windy situation. After trees are set, make a plan of the grounds, marking the different varieties, then remove the wire labels, as they may damage the growing limb.

An hour's exposure of roots to wind or sun may kill any tree; this is especially true of evergreens. In planting cut off the bruised or broken roots with a sharp knife.

If the soil is good and properly prepared, only a hole large enough to easily take the roots need be dug, but better results can always be obtained by digging out a large space and filling in with good top soil. In setting the trees, do not put deeper than they stood in the nursery, excepting some dwarfs, which go a little deeper. **Be sure to Pack the Earth Solidly Around the Roots.** The neglect of this important detail is responsible for many failures.

DECIDUOUS SHRUBS

Prices F. O. B. Portland.

Almond (*Prunus*)

PINK FLOWERING—(P. Japonica)—Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches. **Each \$2.50**

WHITE FLOWERING—(P. Japonica)—Same though white flowers. **Each \$2.50**

AZALEA—(A. Mollis)—Very bushy, a young and proficient bloomer. Colors, red, orange and yellow. **Each \$1.50**

Berberry

PURPLE LEAVED—Having purple foliage, very pretty. **Clump 75c each**

COMMON—(B. Vulgaris)—Very graceful and well known; with showy fruit in Fall. **Each 75c**

B. THUNBERGII—Japanese—Dwarf habit; foliage changes to a beautiful red in Autumn; good hedge plant. **2 to 3 ft., each \$1.00**

Cherry (*Cerasus*)

Each \$1.50

FLOWERING CHINESE—Large double white flowers.

FLOWERING SIEBOLDS RED—Large double red flowers.

Crab (*Malus*)

BECHTEL'S FLOWERING—(M. Ioensis Bechtelii)—Flowers pink and very fragrant. In appearance, a tree of roses. **Each \$1.25**

Deutzia

PRIDE OF ROCHESTER—(Deutzia Crenata)—Tall, very beautiful. Flowers double white. **2 to 3 ft., each \$1.00**

LEMOINE'S—(D. Lemoinei)—A very small shrub with spreading branches, usually about three feet tall. Leaves bright green; flowers white in large clusters. **Each \$1.00**

DOUBLE PINK—(D. Crenata Flora Rosa Plena)—Beautiful dainty pink flowers. Very showy. **3 to 4 ft., each \$1.00**

Elder

GOLDEN LEAVED—Foliage retains its bright golden color through summer. **4 ft., \$1.00**

Filbert

PURPLE LEAVED—Leaves and husks purple; very ornamental. Nuts good. **3 to 4 ft., 75c**

Forsythia (*Golden Bell*)

Most common; deep green foliage. Fine in partial shade. **2 to 3 ft., 75c**

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

DECIDUOUS SHRUBS—Continued

Honeysuckle

BUSH—Very beautiful. 3 to 4 ft., 75c
For others, see Vines.

Hydrangea

PANICULATA GRANDIFLORA—Immense panicles of bloom, from July to November, creamy white, pink flush. Prune back in early spring, about half of previous year's growth. Hardy everywhere; good for cemetery planting. 2 to 3 ft., 75c; 3 to 4 ft., \$1.00

JAPANESE or HORTENSIA—Blue, pink, white and others. Strong. See page 31.

FRENCH—Very desirable.

Lilac. (*Syringa Vulgaris*)

COMMON PURPLE—Very fragrant, an old favorite. 3 to 4 ft., 75c; 10 \$6.00

COMMON WHITE—Same as above, flowers white. 3 to 4 ft., 50c; 10 \$4.50

Mock Orange (*Philadelphus*)

GRANDIFLORA—Flowers large; slender twig habit. 3 to 4 ft., each 50c; 10 \$4.50

HYBRID. 2 to 3 ft., 50c

Quince

JAPONICA—(Japan Flowering) — Blossoms vary from the richest scarlet to the most delicate blush color; the fruit is deliciously fragrant, but not edible.

2 to 3 ft., each 60c to 75c

Spiraeas

Each 75c

SPIRAEA THUNBERGII—Charming spiraea with graceful form and abundant blooms.

BILLARD'S—(*S. Billardi*)—Flowers red in dense spikes, blooms most of Summer.

VAN HOUTTE'S BRIDAL WREATH—(*S. Vanhouetti*)—Very graceful; flowers white in round clusters. May.

CRIMSON—*Anthony Waterer* (*S. Bumalda*)—A most desirable variety, having deep red flowers, blooming all Summer, fine for foreground planting.

JAPANESE—(*S. Callosa*)—Purplish foliage while young, flowers rosy pink in July.

Snowball

COMMON—Flowers globular, pure white, in May. 3 to 4 ft., each 60c; 10 \$5.00

JAPANESE—Flowers pure white, delicate large globular heads in May. 2 to 3 ft., 85c

Tamarix

JUNIPERINA—Ornamental tree with soft, Juniper-like leaves, pink flowers.

3 to 4 ft., \$2.50

Weigelia

CANDIDA—Flowers white, bush tall. 75c

ROSEA—Flowers light pink, shrub compact. 75c

EVA RATHKE—Flowers red, one of the best. Slightly dwarf. 75c

VARIEGATED—Leaves become silver white. 75c

SHADE AND ORNAMENTAL TREES

SPACE will not permit us to give more than the very briefest description of ornamentals in this booklet, but complete descriptions and detailed information covering your planting problems will be promptly and cheerfully furnished on request, together with such suggestions as we feel will prove helpful to you. We shall be pleased to quote special prices on larger grades than those offered in the list.

When large trees are planted, they should be cut down to within 8 feet of the ground and all laterals should be shortened in, thinned out if they are too thick and cut away entirely to about 6 feet off the ground.

We shall be pleased to give quotations to persons desiring large numbers.

Prices of the following are for the 7 to 8 feet grade, excepting where otherwise specified.

DECIDUOUS TREES

Ash

AMERICAN WHITE—Broad, round head and dense foliage. Very fine. Each \$1.00; 10 \$9.00

Basswood (*See Linden*)

Beech

AMERICAN—(*F. Americana*)—Unequaled for splendor. Each \$1.50

PURPLE LEAF—(*F. Sylvatica Purpurea*)—The well known purple leaved beech. Its brilliant foliage makes it a very effective tree where rich color effects are wanted.

Each \$2.00

Birch (*Betula*)

EUROPEAN WHITE—(*B. Alba*)—Silvery white bark and slender drooping branches.

Each \$2.00

Catalpa

Splendid trees, white flowers, bright foliage.

CATALPA WESTERN—(*Speciosa*)—Very rapid grower; fine as a quick shade.

7 to 8 feet, each \$1.50; 10, \$12.00

Dogwood (*Cornus Florida*)

WHITE FLOWERING—Flowers white, 3 in. in diameter, blooming before leaves come in spring. Price, 4 to 5 ft., ea. \$1.50; 10, \$12.00

DECIDUOUS TREES—Continued**Elm**

AMERICAN WHITE—A magnificent tree with drooping branches.

7 to 8 ft., ea. **\$1.25; 10, \$1.00**

CORK BARK—Desirable for street planting. Young branches very corky. **Each \$1.25**

Hawthorne

PAUL'S DOUBLE SCARLET—(C. Monogyna Pauli)—A tree of fine habit; flowers bright scarlet, large, full and very double in heavy clusters on long sprays. **Each \$1.50**

DOUBLE WHITE—(C. Monogyna Alba Plena)—Flowers small. Leaves lustrous green color. **Each \$1.50**

Horse Chestnut (*Aesculus*)

WHITE FLOWERING—(A. Hippocastanum)—Foliage showy, flowers stand in upright panicles. **Each \$1.00**

RED FLOWERING—(A. Rubicunda)—Same as above, flowers red. **Each \$1.25**

Laburnum (*Golden Chain*)

LABURNUM—(L. Vulgari)—A beautiful small growing tree, with long, drooping racemes of fragrant yellow flowers. **Each \$1.00 up**

Larch (*Larix*)

AMERICAN—(L. Americana)—A tall conical tree, very graceful in park and landscape; remarkable for its soft green foliage, which expands with the first warm days of early Spring. **Each \$2.00**

Linden (*Tilia*)

AMERICAN—(T. Americana)—Shapely and handsome; foliage large.

EUROPEAN—(T. Europea)—Similar to American. Leaf smaller. **Each \$1.50**

Locust (*Robinia*)

BLACK—(R. Pseudacacia)—Rapid grower; fine for street planting. **Each \$1.00**

Magnolia

CUCUMBER TREE—(Magnolia Acuminata)—Tall, pyramidal tree. Showy leaves and yellowish-white flowers. **Each \$2.50**

Maple (*Acer*)

ASH LEAVED—(A. Negundo)—A rapid grower, fine for street tree, foliage ash-like. **Each \$1.50**

OREGON SOFT—(A. Macrophyllum)—A rapid grower, fine for avenues. Leaves large. **Each \$1.00**

SYCAMORE—(A. Pseudoplatanus)—Tree large and spreading with handsome foliage. **Each \$1.50**

NORWAY—(A. Platanoides)—Large, growth compact; foliage deep green. Handsome. **Each \$1.50**

Mountain Ash (*Sorbus*)

AMERICAN—(S. Americana)—Very ornamental, handsome foliage turning orange red in the Fall. Red berries remain on the tree most of the Winter. **Each \$1.00**

EUROPEAN—(S. Aucuparia)—White flowers, then beautiful red berries. **Each \$1.00**

Mulberry (*Morus*)

DOWNING'S EVERBEARING—(M. Rubra)—A rapid grower with good fruit. Fine as a shade tree. **Each \$1.50**

NEW AMERICAN—(M. Americana)—A rapid grower, handsome; splendid as a shade tree. **Each \$1.50**

Oak (*Quercus*)

Each \$1.00

ENGLISH—(Q. Pedunculata)—Low growing spreading habit and rapid growth.

RED AMERICAN—(Q. Rubra)—A rapid grower, large size.

PYRAMIDAL—(Q. Pedunculata Fastigiata)—Handsome with pyramidal branches and deep green foliage. **Each \$1.50**

SCARLET—(Q. Coccinea)—Pyramidal shape foliage changes to bright red in Fall.

OAK PIN—(Q. Palustris)—The Pin Oak is by far the most planted of all the native oaks. Graceful in form, glossy deeply-pinnated foliage. Splendid for lawn or street. **Each \$2.00**

OAK RED—(Q. Rubra)—Ideal for lawn or street. **Each \$2.00**

Poplar (*Populus*)

6 to 8 feet, **\$1.00; 8 to 10 feet, \$1.50**

BOLLE'S SILVER—(P. Alba Bolleana)—A compact upright grower, foliage glossy.

LOMBARDY—(P. Nigra Fastigiata)—An erect rapid grower.

BALM OF GILEAD—(P. Candicans)—Tall and handsome, branches spreading.

Prunus Pissardi

Foliage and fruit entirely red. Plums very good quality. **Each \$1.50**

Prunus Vesuvius

Rich red luxuriant foliage. Holds color late in the Fall. **4 to 6 feet, each \$1.50**

Sycamore or Plane (*Platanus*)

AMERICAN—(P. Occidentalis)—Has broad foliage and handsome bark. **Each \$1.00**

TULIP TREE—(Liriodendron Tulipifera)—Leaves light, glossy green, fiddle shaped flowers, greenish yellow, tulip shaped. **Each \$1.50 to \$2.00**

DIAMOND PLANT FOOD for Palms.

EVERGREEN SHRUBS

Azalea

CRIMSON—(A. Hinodegiri)—(Asahi)—Evergreen variety from Japan, bright, minute, waxy foliage that turns garnet in Winter. Loaded in early Spring with masses of scarlet flowers which almost cover the plant. Low-growing, and one of our best massing shrubs.

Choice plants, \$2.00 to \$2.50 each

ABELIA GRANDIFLORA—Graceful evergreen shrub with small glossy leaves and beautiful small white flowers blushed with pink.

18 to 24 inches, each \$1.00

Barberry

BERBERIS DARWINI—Shrub with holly-like leaves and blue berries; clusters of yellow flowers adorn the branches in early Spring; desirable for hedges.

Each \$1.50

DULCIS—A new variety. Strong upright grower with beautiful glossy leaves.

Camellia

JAPONICA—White, pink or red. Fine winter flowering shrub with dark green glossy leaves; flowers waxy.

Each \$2.50

Cotoneaster

HORIZONTALIS—Delightful low - growing shrub. Glossy foliage almost evergreen, and bright red holly-like fruits. Fine for Rockery.

Each \$1.50

MICROPHYLLA—Smaller shrub than Horizontalis; flowers white, usually solitary blooming in late Spring. Bright red berries lasting the greater part of Winter.

SIMONSII—More upright than the preceding. Prized for flowers and bright red berries.

Boxwood

Splendid Specimens

PYRAMID: 1 to 2 feet, each \$3.00

2 to 3 feet, each \$4.00

BOX PLANTS—For hedges and borders:

4 to 6-inch, per 100 up \$10.00

Broom (*Cytisus*)

SCOTCH—(C. Scoparius)—Branches drooping, covered in Spring with bright yellow pea-shaped flowers.

WHITE FLOWERING—(C. S. Alba)—Same as Scotch. Flowers white.

Each \$1.00

Holly (*Ilex*)

We have a fine lot of Hollies, both seedling and grafted stock. If wanted in quantity, write for special prices.

ENGLISH—(Aquifolia)—Prickly, dark green foliage; grows moderately fast, covered during the winter months with bright red berries.

Prices—Berry-bearing trees, ea. \$3.00 and up

Hydrangea

HORTENSIS BLUE—Very fine Japanese variety for potting and porch decoration; large flowers, rosy blue to light blue, according to the soil.

HORTENSIS PINK—Fine truss, pure pink.

Each 75c, \$1.50 \$2.50,

Laurustinus

Luxuriant dark green foliage, with clusters of small white flowers in winter.

1 to 2 feet, each \$1.50 and up

Laurel

PORTUGAL—Dwarfish, leaves dark green; flowers very sweet.

2 to 3 feet, \$3.25

ENGLISH—Leaves broad, flowers in clusters, creamy white. Purple berries.

18 inches to 3 feet, 75c to \$3.00

LONGICERA NITIDA—Resembles the box wood and is used in tubs and pots for porch decorations.

Pyramids—2 to 3 ft., each \$3.00. 1½ to 2, 2 ft., each \$2.00.

Standards—12 inch stems, 12 inch heads,

each \$2.00; 10-inch heads, each \$1.50.

Small plants for hedges—\$8.00 per 100.

OREGON GRAPE—(Mahonia Aquifolia)—Shining, purple, prickly leaves; bright flowers; yellow; berries blue-black.

Each \$1.00

PRIVET CALIFORNIA—(Ligustrum Ovalifolium)—One of our best hedge plants, glossy leaves, almost evergreen. (Hedge.)

Plants 12 to 18 in. 10 for \$1.00; 100 for \$7.00

Plants 18 to 24 in. 10 for \$1.25; 100 for \$8.50

Rhododendron

GRAFTED VARIETIES—Magnificent, June and July flowering, evergreen shrubs; the finest and most hardy of all evergreens; they prefer a somewhat shady situation. There are many varieties, the flowers of which are produced in great abundance and in shades of the following colors: White, blue, purple, cherry, lilac, mauve and crimson.

Choice plants according to number of buds.
15 to 18 buds, \$5.50; 12 to 15 buds, \$4.50;
8 to 12 buds, \$2.50.

WEeping TREES

Ash (*Fraxinus*)

EUROPEAN WEEPING—(F. Excelsior)—Splendid arbor tree. Each \$1.25; 10, \$10.00

Willow (*Salix*)

WISCONSIN—(S. Babylonica dolorosa)—Large glossy leaves and very pendulous habit.

Each, 75c; 10, \$6.50

AMERICAN—(S. Babylonica)—The well-known common weeping willow.

Each 50c; 10, \$4.50

Miscellaneous Ornamentals

BAMBOO—Ornamental plant, with almost evergreen foliage. Strong clumps, 3 to 6 feet.

Each \$1.00 to \$2.00

PAMPAS GRASS—Ornamental grass, easily grown, producing long, pointed leaves and majestic, silvery white plumes; 6 to 8 ft. high.

Strong roots, each 75c

Large specimen plants, \$2.00 to \$5.00

YUCCA—Spanish Bayonet or Adam's Needle—Bell-shaped flowers on laterals, forming a perfect pyramid; fine for rockwork.

2 to 3 feet. Each \$1.50 up

CONIFEROUS EVERGREENS

Arbor Vitae (*Thuja*)

AMERICAN — (T. Occidentalis) — Native, known as red cedar. Foliage bright green, yellow-green underneath; brown and bronze in winter. **Each \$1.50**

AMERICAN VARIEGATED PYRAMIDAL — (T. Occidentalis Pyramidalis) — Pyramidal form, foliage dark green. **Each \$2.00**

ORIENTAL — (T. Orientalis) — Fine, with close ascending branches of a fan shaped appearance. **Each \$3.00**

Cedar (*Cedrus*)

DEODAR or INDIAN CEDAR — (C. Deodara) — Very handsome; branches drooping; foliage silvery green. Very popular. Vigorous grower. **Each \$2.00**

BLUE VIRGINIA CEDAR — (Juniperus Virginiana Glauca) — Compact upright grower; foliage silvery blue. **Each \$3.00**

RED CEDAR — (Juniperus Virginia) — Native with striking form and beautiful color. **Each \$2.00**

Cypress (*Cypressus*)

New Varieties

ALLUMII — Handsome pyramid shaped conifer. Foliage greenish-blue. **Each \$3.00**

TRIUMPH OF BOSKOOP — Spreading habit; strong grower; one of the bluest conifers in cultivation. **Each \$3.00**

CYPRESS LAWSON'S — (Chamaecyparis Lawsoniana) — Graceful and conspicuous; branches horizontal, slightly pendulous, foliage dark green. **Each \$2.00**

Fir (*Abies*)

AMERICAN BALSAM — (A. Balsamea) — Prized for its delightful aroma. **Each \$2.00**

NORMAN'S — (A. Normanniana) — Lustrous, deep green foliage; very symmetrical. One of the best. **Each \$2.00**

WHITE — (A. Concolor) — A fine spruce; rapid growth; very hardy. Very attractive. **Each \$3.00**

Hemlock (*Tsuga*)

WESTERN — (T. Hookeriana) — Very beautiful and appealing; branches pendant and foliage deep green. **Each \$3.40**

Juniper (*Juniperus*)

IRISH — (J. Communis hibernica) — Pyramidal in form, foliage silvery gray. Very striking. **2 to 3 ft., each \$2.00**

COMMON — (J. Communis) — Branches spreading. Fine trees. **Each \$2.00**

Juniperus (*New Varieties*)

PHTZERIANA — A graceful growing variety with horizontal branches and grayish-green foliage. **2 to 3 feet, each \$2.00**

Pine (*Pinus*)

AUSTRIAN — (P. Austriaca) — Well known and widely planted, especially at seashore, growth rapid, quite hardy. **Each \$3.50**

SCOTCH — (P. Sylvestris) — Robust growth; branches pendulous; leaves bluish green. **Each \$2.50**

UMBRELLA — (Sciadopitys Verticillata) — Rare very hardy; leaves dark green; Japanese origin. **2 to 3 feet, each \$1.50**

Spruce (*Picea*)

NORWAY — (P. Excelsa) — A lofty, rapid grower; branches drooping. Fine for hedge or windbreak. **Each \$3.00**

KOSTER'S BLUE — (P. Pungens Glauca) — A strain with the brightest blue color yet obtained. New. **Each \$4.00**

Yew (*Taxus*)

ENGLISH — (T. Baccata) — Slow growth, densely branched, head spreading, dark green leaves. **2 to 3 feet, each \$2.00**

IRISH — (T. Baccata Fastigiata) — Upright, deep dark green foliage. **Each \$2.00**

BEAUTIFUL FLOWERING BEGONIAS

20 cents each; 6 sorts for \$1.00 (except as noted).

Probably the most satisfactory class of plants for house culture obtainable. Of easiest possible culture, their waxy flowers produced in much profusion together with their handsome foliage make them most desirable subjects for the window garden.

ARGENTEA GUTTATA — Handsome erect growing sort, wine-colored leaves with silvery white spots. Clusters of pure white flowers.

BERTHA CHATEROCHER — Covered all the year with bright scarlet flowers. Handsome green foliage. A fine house plant.

COMPTA — Long pointed green leaves with a silvery tinge overlaying the green. Fine large clusters of wax-like white flowers.

DEWDROP — Pretty ovate shining green foliage. Myriads of pure white flowers all the year. Never out of bloom.

FOLIOSA — The freest-flowering Begonia we have. Makes a handsome window plant, pink flowers.

GLOIRE DE CHATELAINE — Glossy green ovate leaves, flowers, white heavily bordered with rose pink. A grand new variety from France.

MARGUERITE — Bronzy green, with purple cast; trusses of cream and rose-colored flowers.

MARJORIE DAW — Foliage deep glossy green; flowers a beautiful shade of salmon pink, produced in drooping clusters.

METALICA — A fine old variety with very dark green plush-like leaves. Pretty pink flowers covered with glandular hairs before opening.

NITIDA — Glossy green leaves of wax-like substance. Clusters of pure white flowers produced freely for a great part of the year.

OTTO HACKER — Fine upright habit, with large shining deep green leaves. Flowers bright scarlet. 20 cents each.

PRESIDENT CARNOT — Foliage large, upper side deep green; under side purplish red; flowers beautiful coral red in large pendant panicles.

FRUIT TREES, BERRY BUSHES, PLANTS

IN THE PURCHASE of fruit stocks great care should be given to the selection of varieties that will meet your conditions and requirements, as many that thrive and bear abundantly in one section often prove disappointing under variable conditions. Also many splendid sorts for home use are totally unsuited for profitable marketing. For this reason we offer a large assortment of improved varieties carefully tested and selected for their special merits and their adaptability to varying conditions, and if you will state whether you intend growing for distant or local market or for home use, giving location and general conditions, we can recommend or assist in the selection of those varieties that will give you best results.

KEEPING TREES OVER WINTER FOR SPRING PLANTING

This can easily be done by following the simple instructions given below:

Select a well-drained spot where the soil is mellow, and dig a trench deep enough to cover the roots well; put in one layer of trees, placing them so they will not be erect but at a decided angle, pack the dirt firmly about the roots, then place the next layer. When trees are all "heeled" in, cover the tops with boughs or bank up the earth over them. Be sure there is no grass or rubbish near to harbor mice. In mild situations where winters are not severe, do not bury or cover the tops; simply "heel in." Trees thus kept on hand ready for planting as soon as the frost is out of the ground will be found well preserved and are more sure to grow than later spring planting. Besides you get better service by ordering in the early fall as stocks are more complete.

If trees are frozen in transit, do not unpack, but set away in a cool cellar and allow them to thaw gradually. Trees or roses that are dried out and shriveled should be buried, tops and all, in moist earth for a few days. This will restore them.

Deliveries can be made from November until May, but orders are accepted at any time for delivery in season.

APPLES

This is a good year to plant Apple trees. The standards of production and markets are well established, making an apple orchard a safe investment. Write for quotations on large orders.

	Each	Per 10	Per 100	F. O. B.
First Grade, 2 years.....	\$0.75	\$6.50	\$50.00	Portland; If mailed, postage extra.
First Grade, 4 to 5 feet.....	.50	4.50	40.00	
First Grade, 1 year, 3 to 4 feet.....	.40	3.50	30.00	

Summer Varieties

- EARLY HARVEST**—Medium size; bright straw color; tender and fine, good for table and cooking. July.
- FAMEUSE**—(Snow Apple)—Medium, roundish, greenish-yellow, with streaks of deep red and sunny side; flesh remarkably white; fine dessert fruit. October to December.
- FALL PIPPIN**—Yellowish green; good cooking apple. September.
- GOLDEN SWEET**—Large, pale yellow, tender and rich; good for cooking; fine bearer. August.
- GRAVENSTEIN**—Large, beautifully dashed with deep red and orange, tender and crisp, with a highly aromatic flavor; tree very vigorous. August.

Autumn Varieties

- RED ASTRACHAN**—Large, deep crimson, flesh white, moderately juicy, with an agreeable rich acid flavor; very productive. August.
- WEALTHY**—Medium, whitish yellow, shaded with deep red; flesh white, tender and juicy. October.
- WHITE ASTRACHAN**—Greenish white, very showy, constantly growing in favor where known. Late July.
- YELLOW TRANSPARENT**—Medium size, roundish, slightly conical; skin pale yellow; flesh tender, juicy, sub-acid; good; bears at an early age. July.

Winter Varieties

- ARKANSAS BLACK**—Medium, round; yellow where not covered with a beautiful dark maroon, approaching black; flesh firm, fine grained, juicy; a long keeper. December to April.
- BISMARCK**—The apple novelty; everyone should try it; tree of short, stocky growth, thick, healthy foliage; fruit large, handsome, yellowish, sometimes shaded red cheek; flesh tender, pleasantly sub-acid; entirely new; seldom failing to bear when two years old. September.
- BALDWIN**—Large, rounded; deep, bright red; very productive; crisp, fine flavor; one of the best and most popular winter apples. November to February.
- DELICIOUS**—A splendid apple; coming into prominence rapidly. Tree vigorous and hardy and the fruit equals the name in every respect. Fine for market and home use and especially adapted to Eastern Oregon and Washington. Keeps till April.
- GRIMES GOLDEN**—Very popular. Rich golden yellow; flesh tender, juicy and rich. Tree hardy and vigorous, bearing young. November to December.
- JONATHAN**—Tree vigorous, long lived and an early bearer. Fruit beautiful red and oblong; fine quality. Valuable as a pollenizer with Spitzenberg and Newtown. October to January.

APPLES—Continued

KING—Large and handsome, striped red and yellow; tree vigorous and productive. November to December. Good mountainous apple.

McINTOSH RED—A seedling of the Fameuse; bright red; flesh white, very tender and delicious. Long lived and very productive. Adapted to Montana. November.

MULTNOMAH—(New)—A grand new sort; a hybrid between the American Pippin and Rome Beauty. Originated by H. A. Lewis. Fruit, large; color red, striped yellow; flesh white and fine and of sub-acid flavor; extra long keeper and in its prime from February to June; the coming apple for long distance shipment and Oriental trade. **Price, each 50c**

NORTHERN SPY—Large, round, greenish-yellow, stripes of purplish-red; flesh white, juicy, brisk sub-acid; valuable for "top work." Requires good soil. December.

ORTLEY or WHITE BELLFLOWER—White fleshed, fine grained conical fruit of superior flavor; one of the best. December to April.

RED CHEEK PIPPIN—Excellent variety; sub-acid flavor; yellowish green color; red cheek; large size; good bearer. Keeps till March.

ROME BEAUTY—Large, yellow, shaded with bright red; flesh and sub-acid; fine market sort; good bearer. November to February.

SPITZENBERG—Large, oblong; yellowish ground with broken stripes of bright red flesh yellowish, juicy, delicious rich flavor. November to March.

GOULD SPRAYERS will give and maintain the necessary pressure to spray right. They are built for lasting service. See General Catalog.

STAYMAN WINESAP—A seedling of the Winesap. Yellow striped with red. Flesh firm, crisp, juicy and very tender and rich; sub-acid. A drought resister; a profitable market variety. January, May.

TOLMAN'S SWEET—Medium size, pale, whitish yellow, tinged with red; flesh firm, rich and very sweet; best to preserve, vigorous; productive. November to April.

WINTER BANANA—Fancy market fruit; pale yellow with pink blush. Has a delightful aroma and suggestive banana flavor. Not a good shipper. November.

YELLOW BELLFLOWER—Large, oblong, yellow, sometimes a blush in the sun; flesh firm, crisp, juicy, sub-acid; tree a good grower and very productive; succeeds well in this valley. October to January.

YELLOW NEWTOWN PIPPIN—Large; skin smooth, golden yellow; flesh firm, crisp, juicy; one of the standard varieties for export. December to May.

Crab Varieties

FLORENCE—Red striped; early good annual bearer, juicy and crisp; fine for home gardens. September 1.

HYSLOP—Large, deep crimson; hardy. November and January.

RED SIBERIAN—Yellow with scarlet cheek. Bears young and abundantly. September.

TRANSCENDENT—Very large, good for cider; yellow striped red. Productive. Adapted to Montana. September.

PEARS

WE CAN SUPPLY all standard varieties of Pears, but list only those in greatest demand. If the variety you want is not listed, write us.

	Each	Per 10	Per 100
First Grade, 1 year, 4 to 6 feet.....	\$0.75	\$7.00	\$60.00
First Grade, 1 year, 3 to 4 feet.....	.60	5.50	50.00

F. O. B. Portland; if mailed, postage extra.

Autumn Varieties

BARTLETT—Large; skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence. August, September.

BEURRE BOSC—Large, beautiful, russety; highly flavored; fine for shipping. September.

BEURRE D'ANJOU—Large, handsome, fine flesh; tree vigorous; heavy bearer; keeps till Christmas. September.

COMICE—A splendid commercial variety, being of fine size; good appearance; ships well. October.

FALL BUTTER—A favorite fall pear; yellow, sweet and juicy. September.

FLEMISH BEAUTY—Large, beautiful, rich and sweet; pale yellow with slight russet. Adapted to Montana and the Northwest.

SECKEL—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek; September, October.

Winter Varieties

P. BARRY—Fine keeper. Very large, juicy, fine grained, yellow. December, March.

WINTER BARTLETT—This fine pear originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; flavor almost identical with the Bartlett; is undoubtedly one of the few pears of recent introduction of real merit.

WINTER NELLIS—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained, of a rich saccharine, aromatic flavor. December.

CHERRIES

4 to 6 ft., \$1.25 each, \$10.00 per 10, \$90.00 per 100

F. O. B. Portland; if mailed, postage extra

BURBANK — (Burbank's Production) — The earliest of all large cherries; the fruit is extremely large for an early cherry, attractive deep crimson color, and of superior quality. The Burbank produces as well or better than most late cherries, but it brings the early market price. This cherry means profit to you.

BING — Originated in Oregon, from seed of Black Republican; fruit large, dark brown or black; very fine; late; good shipping variety. July.

BLACK REPUBLICAN — (Lewelling) — Seedling, raised by Seth Lewelling, of Oregon; large size, black, sweet, with purplish flesh; late and a good shipper. June.

KENTISH — (Early Richmond) — Dark red, juicy; one of the best sour cherries and unsurpassed for cooking purposes; very productive. Mid-May.

LAMBERT — Fruit of largest size and of fine quality; color deep rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann. Mid-July.

LATE DUKE — Large, light red; late and excellent, sub-acid. Late July.

MAY DUKE — Large, rich, dark red; flesh tender, juicy and sub-acid; an excellent variety and one of the earliest of its class. May.

ROYAL ANN — (Napoleon Bigarreau) — A magnificent cherry of the largest size; pale yellow becoming amber in the shade; richly dotted and spotted with deep red, and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer. July 1.

 **SPRAYS AND FERTILIZERS—PAGE 43.**

PRUNES

IF YOU CAN—Grow Prunes—The demand is always good and will increase every year as they can only be grown in certain sections, but where conditions are right they are easily and profitably produced.

PRICES, except where noted: (Special prices in 1000 lots)	Each	Per 10	Per 100
First Grade, 2 years.....	\$1.00	\$9.00
First Grade, 1 year, 6 to 8 feet.....	1.00	9.00	\$75.00
First Grade, 1 year, 4 to 6 feet.....	.50	4.00	35.00
First Grade, 1 year, 3 to 4 feet.....	.40	3.00	25.00

F. O. B. Portland, postage extra.

GIANT — Largest prune known; fruit averaging 1½ to 2 ounces each; retaining the good qualities of the smaller varieties.

HUNGARIAN — Very large; dark red, juicy and sweet; good shipper. August.

ITALIAN — (Fellenberg) — Large, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. August.

Write for Special Prices in Quantities.

PACIFIC — Large, sweet; same color as Italian. Good canner or to eat raw. Early August.

PETITE — (French) — Medium, egg shaped; violet purple; sweet, rich and sugary; very productive; standard variety for drying. August.

PLANT a Prune Orchard Now.

SILVER — Seedling of the Coe's Golden Drop; tree vigorous and productive; fruit large and superior; excellent for drying or canning. September.

NEW STANDARD — (Burbank Production) — The trees are enormous and never failing bearers, and good, healthy growers. Well grown fruits measure four and a half inches around one way by nearly six inches the long way. Skin purple, with a heavy blue bloom; flesh amber or honey yellow, fine grained, juicy, yet firmer than most other drying prunes, very sweet and a perfect freestone.

SUGAR — (New) — Tree vigorous grower; early variety; fruit ripens 28 days before the French; is four times as large and dries in half the time; flesh tender and rich in sugar; color dark purple. Early August.

PLUMS

2 year, \$1.00

4 to 5 ft., 50c each, \$4.50 per 10, \$40.00 per 100

3 to 4 ft., 40c each, \$3.50 per 10, \$30.00 per 100

F. O. B. Portland

BRADSHAW — Reddish purple, juicy and pleasant; adheres partially to the stone. July.

COLUMBIA — Largest size, nearly globular; brownish purple; rich, sugary, freestone. August.

COE'S GOLDEN DROP — Very large; light yellow; sweet and delicious. Late September.

DAMSON — Small, oval, bluish purple; flesh melting, rather tart. Tree very fruitful and hardy. August.

PLUMS—Continued

DAMSON — SHROPSHIRE — Medium size, dark purple; very firm; flesh greenish, juicy and rich. Vigorous. Late September.

GREEN GAGE—Small round; flesh pale green, melting and juicy; freestone. Mid-July.

MAYNARD—Dull red, large, round and firm; rich and sweet; sturdy, quick-growing, heavy-yielding variety; extra fine; ripens in July.

PEACH—Very large; skin brownish red, slightly coarse grained, but juicy; freestone; very popular. July.

PRINLEW PLUM—Best large Plum for fruit market. Larger than Giant Prune and quite solid meat. Good shipper.

Each \$1.00; 10, \$8.50

SATSUMA — (Blood Plum) — Quite popular; large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

WASHINGTON—A large plum; skin dull yellow, with a pale crimson blush; flesh firm; very sweet and luscious; freestone. Early August.

YELLOW EGG—Very large; skin of a deep golden color, but rather acid; excellent for cooking; very showy. August.

PEACHES

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100

F. O. B. Portland; postage extra if mailed

EARLY ALEXANDER—One of the largest and best of the extra early varieties. Almost freestone. July.

EARLY CRAWFORD—Very large, yellow, red, cheek; sweet and excellent; popular for table and canning; freestone. August.

ELBERTA—Very large bright yellow, red cheek; juicy, sweet; regular bearer; freestone. Late July.

HALE'S EARLY—Early, free; extra quality; hardy; prolific.

LATE CRAWFORD—Very large; yellow, dark red cheeks; flesh deep yellow; juicy; rich and excellent; freestone; valuable for canning and drying. September.

LOVELL—Leads all other freestones, especially in California; medium to large; shaded red; flesh firm and rich. Fine for canning, drying and shipping. Tree vigorous and good bearer. August.

MAYFLOWER—Beautiful red all over; extremely early; tree hardy and healthy. Last of June. Freestone.

MUIR—Large, pale yellow; very firm and sweet; best for drying; freestone. August.

SALWAY—Creamy yellow, red cheek; flesh deep yellow, red at the pit; rich and sweet. Freestone. Late September.

TUSCAN CLING—Very large; yellow, blushed red. Vigorous; strong grower. July, August.

APRICOTS

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100

3 to 4 ft., 50c each, \$4.50 per 10, \$40.00 per 100

F. O. B. Portland; postage extra if mailed

THE LEWIS—The new Lewis Apricot is the largest, strongest growing, best yielding, best flavored apricot we have ever seen, and is perfectly hardy. Grown extensively in the "Goodnoe Hills" district. July, August.

MOORPARK—Very large, yellowish green, brownish red and the sunnyside; flesh bright orange; fine for canning and drying; freestone. July, August.

ROYAL—Above medium size; sweet, rich, juicy; good dryer and canner. July.

TILTON—Large; rich color, high flavor; very productive; similar to Royal; later. July.

BLENHEIM—Deep orange, sometimes blushed, tender, rich and juicy. Tree vigorous. Good for Pacific Coast. Last of June.

NECTARINES

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100

F. O. B. Portland; postage extra if mailed

BOSTON—Large, deep yellow, bright blush; flesh yellow; very rich and luscious. Best for Oregon. August 1.

EARLY VIOLET—Medium; skin pale, shaded violet; flesh white; good. July.

BEAUTIFY your GROUNDS for the WORLD'S FAIR, PORTLAND, 1925

Our DIAMOND LAWN GRASS makes an Evergreen, Velvety Turf

PRUNING TOOLS, FRUIT LADDERS, PICKING PAILS, ETC., Page 45

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

DWARF FRUIT TREES

Ideal for home gardens; come into bearing early. Forty Dwarf Trees can be planted in a space 50 feet square and will not shade the ground, which can be cultivated between the trees. For best results Dwarf Trees must be planted in good rich soil and be well cared for; they should be pruned back about two-thirds of their new growth each spring.

PRICE: Each \$1.00, 10 for \$9.00. F. O. B. Portland, postage extra.

DWARF PEARS—Bartlett. DWARF APPLES—Write for varieties.

NUT TREES

Almond (*Nut Bearing*)

ALMOND—(Nut Bearing)—Almonds can be grown successfully in many sections of Oregon and Washington, and are attracting much attention from commercial orchardists. We can supply most of the leading varieties at price listed. Special prices on large orders.
3 to 5 ft., each 75c; 10, \$6.00; 100, \$50.00

I. X. L.—A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial sort.

NONPAREIL—Tree beautiful, slightly weeping; nut sweet and shell very thin. Best for the home.

BUTTERNUT—A beautifully formed tree bearing a rough coated nut of most attractive flavor, well known to the Middle West. Succeeds fairly well in the Pacific States.

3 to 5 ft., each 75c; 10, \$6.00

Hickory

SHELLBARK—Popular Eastern variety; tree hardy but slow grower. Nuts medium size; very good. Quality excellent.

3 to 5 ft., each \$2.00; 10, \$15.00

Filberts

BARCELONA—Magnificent large nut from Spain, first quality; can be grown as low standard tree or bush.

2 to 3 ft., each 75c; 10, \$5.00

DU CHILLY—The largest Filbert on Pacific Coast. Nuts are broad, 1 inch by $\frac{3}{4}$ of an inch; full fleshed and sweet; best grown as low standard. Special prices on large orders. Du Chilly is a good pollinizer for Barcelona.

2 to 3 ft., each 75c; 10, \$5.00

KENTISH COB—An English variety of fair quality and liked by many planters. Nuts large and good tasting.

2 to 3 ft., each 75c; 10, \$5.00

WALNUTS

Walnuts are a sure and profitable crop on the Pacific Coast, and we also urge their planting for shade and ornamental purposes. They grow rapidly, are free from pests, and are handsome and lasting. Only grafted trees should be planted as they yield heavier, the nuts are of better quality and more uniform.

Grafted Walnuts

We offer a splendid strain of Franquettes, the best variety for this section, grafted on four-year California Black Walnut—sturdy, thrifty trees with big fibrous roots. Samples can be seen at our store. The best to plant. Comes to bearing much younger than seedling walnut.

Prices, F. O. B. Portland. } 3 to 4 ft., each 1.75
land. } to 5 ft., each 2.00

Cannot be mailed. } 5 to 6 ft., each 2.50

Seedling Walnuts

FRANQUETTE AND MAYETTE — Second generation, soft shell, selected stock. Trees hardy and prolific bearers. Nuts are rich and meaty. Each \$1.00

CALIFORNIA BLACK—A rapid grower and very desirable; nut medium size, with hard, smooth shell. Adapts itself easily to different climates. Each \$1.75

QUINCE

PRICES: Each 10
First Grade, 2 years.....\$1.00 \$9.00
Postage Extra

APPLE OR ORANGE—Well known standard variety; early; large, golden yellow; good for preserving or flavoring. September.

CHAMPION—Large, yellow; flesh cooks very tender; flavor is most delicious; more productive than the orange. October.

PINEAPPLE—Flavor is suggestive of the pineapple; the fruit resembles the Orange quince; making superior jelly; can be eaten raw and has a most exquisite and delicious flavor, not equaled by any other quince. September.

CURRANTS

Currants are a profitable, easily grown crop, and the market is always good.

PRICES: Each 25c; 10 \$3.00; 100 \$15.00. F. O. B. Portland, postage extra.

PERFECTION—New; largest and most prolific currant; bright red, rich flavor, mild sub-acid.

BLACK NAPLES—Very large, black, rich, tender; fine for jellies and wine. Productive, vigorous.

CHERRY—Very large; deep red; fine for preserving; valuable market variety.

FAY'S PROLIFIC—Bright red, very sweet; fruit hangs on better than most varieties.

VICTORIA—Large, bright red bunches; late productive.

WHITE TRANSPARENT—The best white currant known. Splendid market variety; rich flavor; mild sub-acid.

GRAPES

PRICES, except where noted: Write for prices in quantity.

	Each	Per 10	Per 100
2 year plants, not prepaid, postage extra.....	\$0.25	\$2.00	\$18.00
CAMPBELL'S EARLY —Berries large, nearly round, black, with light purple bloom; flesh rather firm but tender; quality rich, sweet, slightly vinous; a strong and vigorous grower. August.			
MOORE'S EARLY —Bunch medium; berry large, resembling Concord, but more pulp and is earlier.			
CONCORD —Large, black grape; bunches compact; berries round, sweet and pleasant. August.			
DELAWARE —One of the finest of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red. August.			
EATON —Vigorous grower; very productive; bunches large, compact; fruit large, round, black, covered with a thick blue bloom. September.			
NIAGARA —Bunch medium; berry large, roundish, uniform; skin thin but tough; pale yellow flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September.			
WORDEN —Bunch very large and compact; berry large, black; an improved Concord. Late August.			

European Varieties

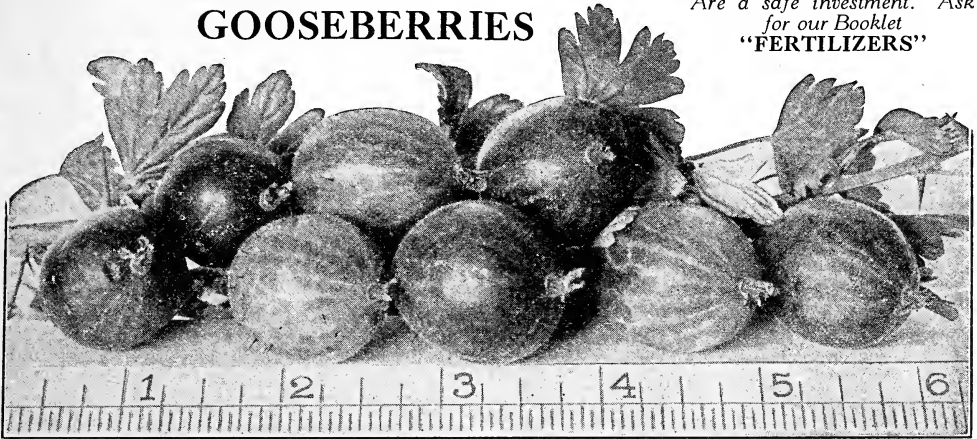
FLAMING TOKAY—Large, light red; flesh firm and sweet; fine table sort and a good shipper. September.

Tokay, Muscat, Malaga and other European Varieties, Choice Plants at above Prices.

Diamond Fertilizers

Are a safe investment. Ask for our Booklet "FERTILIZERS"

GOOSEBERRIES



PRICES: Each 25c; per 10 \$2.00; per 100 \$12.00; F. O. B. Portland

PEARL—Large, light yellowish green; very hardy and free from mildew; superior in size and quality. Very prolific.

OREGON CHAMPION—Berries very large, pale green; sweet, fine; bush strong, prolific bearer. This is the standard commercial sort for our section and is best for home use.

Raspberries (Red Caps)

Prices except where noted: Not prepaid, 1 year—Each 15c; per 10, 75c; per 100 \$3.00

CUTHBERT—Deep rich red, large and firm; one of the best market berries. Ripens medium to late.

MARLBORO—Standard, light crimson, large, very firm; good commercial variety; ripens early.

Raspberries (Black Caps)

Prices except where noted: Not prepaid, 2 years—Each 25c; 10, \$2.25; 100, \$20.00; 1 year—Each 20c; 10, \$1.50; 100, \$12.50.

GREGG—Of good size, fine quality; very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

PLUM FARMER—Large black, hardy and productive. One of the very best.

Asparagus Roots

Asparagus is healthful and delicious—easy to grow and profitable for marketing.

ONE-YEAR-OLD PLANTS—Postpaid, 30c doz.—75c per 50—\$1.15 per 100—by express or freight 25c dozen—60c per 50—90c per 100—\$8.00 per 1,000.

TWO-YEAR-OLD PLANTS—Postpaid, 40c dozen—\$1.00 per 50—\$1.75 per 100—by express or freight 30c dozen—75c per 50—\$1.25 per 100—\$10.00 per 1,000.

Horse-Radish

Postpaid 5c each—35c dozen—by express or freight 25c dozen—\$1.50 per 100.

Write for price by the 1,000.

Vegetable Plants

In Season—See Annual Seed Catalogue.

LOGANBERRY

The loganberry is generally larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry. Fruit ripens early; excellent for jelly or jam. June.

PRICES, not prepaid—Large, well-rooted plants; Two-year-old, each 25c; 10 for \$2.25; 100 for \$20.00. One-year-old, each 15c; 10 for \$1.35; 100 for \$12.50.

Dewberry

Price, not prepaid, each 20c; per 10, \$1.50; per 100, \$12.50

LUCRETIA—Fruit large, soft, sweet; no hard core. Hardy, good for this coast. Last of May.

GARDENIA—Large glossy black; delicious heavy bearer; trailing vine. June.

BLACKBERRIES

PRICES, not prepaid, 2 years: Each, 20c; 10, \$1.75; 100, \$15.00

THORNLESS MAMMOTH BLACKBERRY

—(Cory)—It is a strong, vigorous grower; bears prolific; the canes grow thick and stout until about 5 or 6 feet long when they take the trailing habit, at which time they should be trellised.

It has a delicious flavor of its own, somewhat resembling the wild California blackberry. It is self-fertilizing—never been known to fail to bear.

Another very important feature is that it is almost seedless.

Cory's Thornless blackberries produce a good crop the first year after planting and come into full bearing the second year, when they yield from 5 to 7 tons per acre. They ripen about June 1st and continue to bear until about July 20th.

For the best results these berries should be planted on good land where there is plenty of moisture, in rows 8 feet apart and the vines 10 feet apart in the row. They should be put up on 2 or 3 wires from 2 to 5 feet from the ground.

Each 25c; 100, \$20.00

BURBANK'S THORNLESS—Is an absolutely thornless Himalaya with all the good qualities of that splendid variety and should be grown in exactly the same way. The Burbank Thornless should be trained on wires and pruned back each year the same as grapes. All sprouts and suckers from the base of the plant should be removed as fast as they appear.

When properly handled the Burbank Thornless Blackberry will produce immense crops of berries of the highest quality, splendid for canning and firm enough to stand shipping to distant markets. The fruit is medium to late in season and is borne in great clusters right up to frost time. Being entirely thornless, the expense and discomfort of gathering the fruit is reduced to the minimum.

Each 25c; 100, \$20.00

LAWTON—Fruit large; very productive; well and favorably known; Oregon's most popular kind.



A Cluster of Cory's Thornless

HIMALAYA GIANT—(Evergreen)—An exceedingly strong rampant grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season.

ELDORADO—A valuable new variety; fruit large, jet black, melting, sweet and rich; hardy and very productive; fine for Oregon.

NOTICE.—On page 26 of this CATALOG we show a cut of the beautiful Chinese Cinnamon Vine. They are from China—the land of wonders. They are a rapid grower and will cover porches and walls and their abundant blossoms perfume the air for long distances.

They are perfectly hardy and will thrive in all soils, in sun or shade, wet or dry. No insects or disease trouble them. Winter does not harm.

You certainly will be well pleased with them, include several with your order.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

RHUBARB



PANAMA RHUBARB

THIS RHUBARB won the first prize at both the San Francisco and San Diego Expositions, and is being placed on the market at a price that should warrant extensive planting. As a rhubarb the Panama is unquestionably in a class by itself. Words cannot describe its wonderful flavor and the many other qualities that make it far superior to any other rhubarb. Panama is an everbearing rhubarb, growing continuously throughout the year, both summer and winter. Frost will not kill it, and in the absence of frost it will make its best and most profitable growth during the winter. It is a far cry from the superlative Panama to the ordinary Eastern and other varieties. In size it is more than twice the size, and the stalks are much heavier and larger, full grown stems often being three feet long and weighing two pounds.

FLAVOR—The flavor has been described as of the plum type, although due to its elusive taste, it is almost impossible to definitely fix it. Suffice it to say that a Panama rhubarb pie or sauce is so far superior to others, that comparison is out of the question. The Panama is comparatively free from acid, requires less than half the amount of sugar ordinarily used, and should not be peeled. All the roots are what is known as subdivisions.

CULTURE—The Panama is very easily grown. Plant not more than one-half inch below surface of ground, and water immediately after. Keep the ground well cultivated close to the plant within a radius of at least two feet from the plant. During the first two months irrigate once a week and cultivate after each irrigation. Plant from three to four feet apart in the row, and have rows from four to five feet apart.

PRICE—Each, 50c; Dozen, postpaid, \$5.00; per 100, F. O. B. Portland, \$40.00.

RIVERSIDE GIANT RHUBARB

RIVERSIDE GIANT is very favorably known and has stood the test of time, being crisp, tender, free from stringiness with a good color and a delicious, distinctive flavor. The skin is so thin that it disappears in cooking. Riverside Giant has every good quality of a commercial rhubarb and is so vigorous and productive that over thirty-five tons per acre is a conservative estimate for the season. Cuttings begin in March and usually four are made, the last one in July. Full information for preparation of the soil and growing the crop, as practiced by the originator, will be sent on request to all purchasers.

PRICE: Each, 15c; doz., \$1.50; \$10.00 per 100. Postpaid, each, 20c; doz., \$1.75. Special prices on large lots.

Don't plant rhubarb along a fence, near trees or other crops. Give plenty of room. Write for cultural directions.

VEGETABLE PLANTS—All Standard Varieties in Season—See Seed Catalog.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

STRAWBERRY PLANTS



DIAMOND Quality Strawberry Plants are large, vigorous and healthy. They are heavily rooted and have large, full crowns; have been carefully grown and are free from disease and pests. We dig as ordered and pack for shipment in ventilated crates of 500 plants each. **They are grown from our select strains and are always true to name; no substitution is ever allowed without instructions from the purchaser.**

Our select strains of **New Oregon, Gold Dollar, Marshall, Magoon, Clark's Seedling** and other Western varieties, many of which were introduced by ourselves, still hold their positions as the **leading commercial varieties of the Northwest**, and are being planted more extensively each season, thus demonstrating by actual market and growing tests the great superiority of our Western varieties, against the keenest competition from all sections.

Care For and Feed Your Plants

Neglect is the prime factor in strawberry failures, and most strawberry beds suffer from lack of attention and starvation. Proper fertilization and intelligent culture insure enormous crops of finest fruit and freedom from diseases and pests. White grubs, cutworms, crown miners, etc., can all be controlled by preventive measures. Never set strawberries in or near clover sod or hay fields. Such ground should have at least two years cultivation before using for strawberries. Remove the mulch directly after fruiting.

NEW OREGON

Our Own Introduction

Best, Most Uniform and Heaviest Yielding Main Crop Strawberry

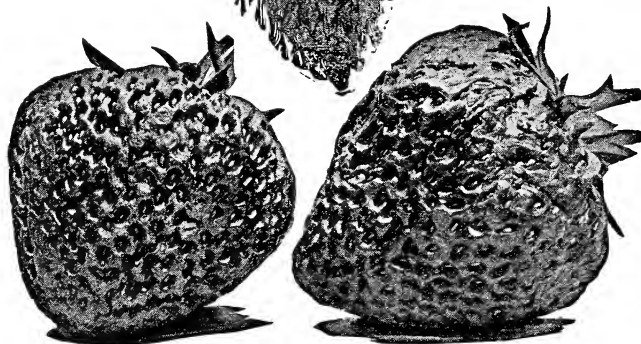
PRICE: \$8.00 per 1000. F. O. B. (See next page for less quantity.)

"NEW OREGON" is large, firm and of fine form, averaging 15 to the quart box; color a brilliant, deep, rich red, having a glossy varnished appearance when fully ripe. This dark blood red coloring extends through to the very center, and, no matter how large, "NEW OREGON" is never hollow. When fully ripe the distinctive flavor is suggestive of the wild berry, is crisp and delicious, and will remain on the vine for three days without injury, keeping perfectly for many days after picking; stands handling and long shipments and will hold its color, shape and flavor when canned.


"NEW OREGON" is an early bearer, being ready for marketing the first half of May in the Willamette Valley and holds up

**Big
Healthy
Well
Grown
Plants**

*Trim Roots
here when
ready to
set out*



in size and quality throughout the season, which in some localities extends until frost.

 The strawberries here offered have all stood the market test and you will be safe in selecting any one of them that will suit your conditions and requirements. They are the best varieties obtainable.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

FALL OR EVERBEARING STRAWBERRIES

Fall bearing Strawberries, also known as "Everbearing," are very satisfactory for home gardens and under some conditions will prove profitable commercially, but require special care and attention to secure best results as the late fruit will be small and yield less if the first blossoms are not removed, and the plants are allowed to fruit early and continuously. When properly grown they are of splendid quality and yield heavily until frost.

PROGRESSIVE—Rich, red color, firm and of delicious flavor. Good keepers and shippers. Blossoms should be cut back about 4 weeks before the berries are wanted. We consider this the best of its class.

SUPERB—Considered by some as being the best of the everbearing, but in our experience they do not ship as well as the "Progressive" although they are a little larger when properly grown and the quality is fully equal to that of the best of the standard sorts.

PRICES: Postpaid, per doz. 60c; 25 plants \$1.00; 100 plants \$3.00
Not prepaid, per doz. 50c; 25 plants 75c; 100, \$2.50; 1,000, \$18.00

STANDARD VARIETIES OF STRAWBERRIES

GOLD DOLLAR—(Extra Early)—Gold Dollar berries are large size, dark red all through and have fine flavor. Foliage heavy, large and spreading, which protects the blooms from early frosts. Gold Dollar Strawberries are the standard early berry in the big markets of the Northwest and are always in demand.

MARSHALL—Very large; dark crimson throughout; fine flavor; a fine market and table berry. Our stock is true, vigorous and prolific.

MAGOON—Berry large, fine and of excellent sub-acid flavor; bears heavily; especially adapted to Western Oregon and Washington.

WILSON—A heavy bearer of fine, moderate-sized berries; sharp acid flavor and the leading sort for canning.

CLARK'S SEEDLING—(The "Hood River Berry")—Best shipper; berries large, of delicious flavor; vines bear large crops; especially adapted to dry soil.

PRICES: All varieties except
Fall Bearing

Prepaid	1 doz.,	\$0.30	Not	25,	\$0.40
	25,	.50		100,	1.00
	100,	1.50		1000,	8.00

Not less than 500 plants of a kind at 1000 rate. Special prices on 3000 or more.

All our plants are officially inspected in the field by the State Horticultural officers and by our own inspectors.

SPRAYS, INSECTICIDES

DIAMOND LIME and SULPHUR SOLUTION

Diamond Lime and Sulphur Solution is prepared in pressure tanks by steam, and is of the highest efficiency. Tests 30 Baume Scale. For old infested trees use 8 gallons water to 1 gallon. For young trees 10 gallons.

Price, 1 qt. 30c—1 gal. 75c—5 gals. \$2.40—10 gals. \$4.50—50-gal. bbl. \$12.00.

SEE OUR ANNUAL 1922 CATALOGUE.

DIAMOND SPRA-OIL

The Hood River miscible oil spray, used by the big orchards for leaf roller.

As a WINTER SPRAY—For San Jose Scale, Pear Scylla, Leaf Roller, Woolly Aphis, use one gallon of Spra-Oil to 15 or 16 gallons of water.

As a SUMMER SPRAY—Very efficient for young San Jose Scale and certain Aphis, diluted with 50 to 100 gals. of water to 1 gal. of Spra-Oil.

Price, qt. 40c—gal. 95c—5 gals. \$3.50—10 gals. \$6.50—bbl. \$22.00.

Treat Your Seeds with Formaldehyde

A Preventive for Smut in Grain—Scab and Fungus Diseases of Potatoes

Formaldehyde is a clear chemical, resembling water, but has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats.

The following method is in general use: To treat 20 bushels of oats requires $\frac{1}{4}$ pint of Formaldehyde diluted with 5 gallons of water. Spread the oats on a floor and sprinkle with the diluted solution. Then turn them twice with a scoop shovel. Allow to stand for 12 hours. Then spread to dry. Any quantity can be treated by using the same proportions. Oats thus treated will be entirely free from smut.

Prices, pint 60c; quart \$1.00; gallon jug \$3.25; express or freight at purchaser's expense; cannot be mailed.

DIAMOND FERTILIZERS WRITE FOR PRICES

GENERAL AND VEGETABLE

An all-round fertilizer, which can be used on any crop, but is especially adapted for grain and general farm crops. Analysis: Nitrogen, 2.50 per cent; phosphoric acid, 9.20 per cent.

100 lbs. \$2.75—per ton \$53.00

We carry a complete line of **FERTILIZERS** for all your needs. Our **Annual Catalog** and also our free booklet on **Fertilizers**, fully describing them, will be mailed you on request. They are handled on small margin, we will be pleased to quote you price on request.

MISCELLANEOUS FLORISTS' SUPPLIES

FOR FLORISTS AND NURSERYMEN

PLANT STAKES—Round cedar, painted green, 3 ft. \$1.00 doz.—3½ ft. \$1.25—4 ft. \$1.60—5 ft. \$2.00—6 ft. \$3.00.

VITAPLASTIC—(Glazing Compound)—The best, most dependable glazing material. Never hardens or cracks. Write for circular. Price, gal. \$2.50; 5 gals. \$11.25; 20 gals. \$45.00.

VITAPLASTIC MACHINE \$7.50

WOODEN POT LABELS

4-inch. Plain, per 100 20c; 1,000 \$1.30

Painted, per 1,000, wt. pkd. 4 lbs., 1.75

5-inch Plain, per 100 25c; 1,000 1.90

Painted, per 1,000, wt. pkd. 6 lbs. 2.50

6-inch. Plain, per 100, 20c; 1,000 2.40

Painted, per 1,000, wt. pkd. 9 lbs., 3.00

WIRED TOOTH PICKS—2½ inches long.

WIRED MATCH STICKS—4 inches long.

WIRED MATCH STICKS—6 inches long.

NICO FUME LIQUID—The best fumigant and spray for greenhouse work. Kills aphids, red spider, mealy bug, thrip, etc. Write for prices.

TREE LABELS

Painted copper wire, per 100 40c; 1,000 \$2.55


Unpainted copper wire, wt. pkd. 4 lbs. per 1,000. Per 100, 35c; 1,000 \$2.10

PENCILS—Indelible, for marking. Each 15c.

WIRE HANGING BASKETS—10 in. 25c—12 in. 30c—14 in. 40c. Special Quantity prices.

GLAZING POINTS—(Peerless)—Best point made. 1,000 in box. Weight 2 lbs. Price 90c
Our line of Chiffons, Ribbons, Cords, Wire Designs, Foil, Baskets and general Florist Supplies stock is very complete.

RAFFIA

 In ordering Raffia by mail, be sure to add postage on 1 lb. or more.

RAFFIA—Natural color. Price, ¼ lb. 15c—postpaid, 20c; not postpaid, per lb. 30c.

COLORED RAFFIA—Any shade, the popular colors being red, yellow, orange, black, blue and purple. Per pkg. postp'd 25c, per lb. \$1.50
Headquarters for **MAGNOLIA LEAVES**.

Write for prices. We can save you money.

CYCAS LEAVES—Sizes 8 x 12, 12 x 16, 16 x 20, 20 x 24.

WIRE—Cut and uncut. Sizes 18, 20, 22, 24. Cut in 12 lb. boxes, and uncut in 12 lb. coils.

WIRE DESIGNS—For Florists, Achors, Bases, Broken Columns, Broken Wheel, Crescent, Crescent Wreaths, Crosses, Odd-Fellows' Pillows, Shower Wreaths, Shields, Stars, Triangles, Wreaths flat. Tells us what you want and we will supply it. Write us regarding your needs.

All Prices on this page F. O. B. Portland.


Write us for your requirements in the **FLORIST Line**.

CUT FLOWER BOXES

We can supply Cut Flower Boxes in the following sizes. Florists write for prices.

3 x18x5	3½x30x5	5x36x8	8x16x16
3 x21x5	4 x24x8	6x40x10	8x20x20
3½x24x5	5 x28x8	6x36x14	8x24x24

FLOWER POT

 Florists, nurserymen and growers should send list of requirements for Special Prices.

PRUNING TOOLS, ETC.

PRUNING SAWS

No. 13—California Pruner (Crescent). Finest silver steel. 14-inch. Each \$1.25

No. 1—Pruning Saw. Made of genuine silver steel. 16-inch. Ea. \$1.35; 18-inch, Ea. \$1.50

No. 3—Duplex Pruner. 16-inch. Each \$1.50; 18-inch. Each \$1.75.

NEW BASTIAN PRUNER

Makes a Clean, Sharp Cut

The powerful lever of the new Bastian Pruner enables you to do the same work in half the time and with half the labor that would be required with old-style Pruners.

Prices F. O. B. Portland

6-ft. . . . \$1.75 10-ft. . . \$2.00 14-ft. . . \$2.50
8-ft. . . . 1.85 12-ft. . . 2.25 16-ft. . . 3.00

PRUNING SHEARS

No. 4773—9-inch; full polish, with double brass springs; best American make. Weight 1 lb.

Price \$2.35

No. 40—9-inch; bright finished, polished blade, spiral steel spring; made for hard service. Weight 1 lb.

Price \$1.75

No. 41—Same as No. 40, except with ratchet nut. Weight, 1 lb.

Price \$1.90

No. 30—7-inch, black finish; polished blade; very good. Weight 1 lb.

Price \$1.25

No. 31—Same as No. 30, only 9-inch ratchet nut; an American make. Wt. 1 lb.

Price \$1.40

Levins Shear No. 23.

Price \$1.00

Grape or fruit thinning.

Price 65c

BRANCH SHEARS

No. 126—26-inch. Weight 5 lbs. Price \$2.45

Fig. 35—Standard pattern. Satisfactory for light work; a good value.

24-inch handle, weight 2½ lbs. \$1.60

For full description and cuts of pruning tools see OUR ANNUAL CATALOG. Mailed FREE on request.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

CLOVER AND ALFALFA SEEDS

Write for prices on 100 lbs. or ton lots. They are always subject to market changes. Single pound prices postpaid; for larger lots add postage at zone rate.

Grimm Alfalfa

Grimm Alfalfa is the hardiest Alfalfa known. In trials, at practically every Experiment Station in the West and Northwest, it has headed the list for vigor and hardiness.

Grimm Alfalfa has a branching fibrous root system which makes it better adapted for dry lands and irrigated lands of shallow depth of soil. Being an early vigorous grower it gives heavier cuttings and larger total yield in sections of short growing seasons.

The stock seed of Grimm Alfalfa dates back to 1857 and was brought from Europe by Grimm who settled in Minnesota. From this small start Grimm Alfalfa has been distributed and become established in sections where other Alfalfas would not thrive and it is from these plantings that the present seed supply is drawn. Being scarce and in big demand the price is high but the value of Grimm has been demonstrated beyond question and we recommend its trial.

Price per lb. 70c postpaid. Write for prices in quantities.

DRY LAND ALFALFA—Dry Land Alfalfa will produce large, profitable crops of hay and excellent pasture on the high, dry lands of Eastern Oregon, Washington, Idaho and Utah, and is especially recommended for the hills and plateaux where irrigation is impossible. It comes from the **highest, driest alfalfa sections**, and is very superior seed.

Write for prices; state quantities wanted.

ALFALFA—Our domestic Alfalfa is acclimated, and will thrive splendidly where growing conditions are normal, including irrigated land. Where dry farming is practiced, special Dry Land Alfalfa is recommended.

Write for prices; state quantities wanted.

Clovers

WHITE DUTCH CLOVER—(*trifolium repens*)

—Superior for pasture and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass.

80c per lb. postpaid.

RED CLOVER—(*trifolium pratense*)—The standard Clover for all purposes. Hardy and succeeds well on any good soil. Makes superior hay—especially mixed with Timothy—either for dairy cows or for general use.

Write for prices.

CRIMSON or SCARLET CLOVER—(*trifolium incarnatum*)—Highly recommended for pasture and fertilizing purposes. Is a thrifty annual.

Write for prices.

MAMMOTH RED CLOVER—Grows very large and is used almost exclusively for plowing under for manure.

Write for prices.

BOKHARA SWEET or HONEY CLOVER—(*melilotus alba*)—A rapid-growing, white-flowered sort; excellent for bees. Sow 10 pounds per acre.

Write for prices.

ALSIKE or SWEDISH CLOVER—(*trifolium hybridum*)—A perfectly hardy perennial. Excellent for hay and pasture. Valuable for bees. Resists both drought and excessive moisture.

Write for prices.

DIAMOND GRASS SEED MIXTURES



DIAMOND QUALITY GRASS SEEDS are the choicest new crop seeds, re-cleaned and tested for purity and germination, and only those stocks that grade above the established standards are offered to our customers.

Our **Special Mixtures** have been carefully worked out by the tests and observations of practical experts familiar with the requirements and conditions to be met, and will give the best results possible to obtain for the uses for which they are recommended.

"DIAMOND" FANCY LAWN MIXTURE

TO have a good lawn the soil must be fine and rich, and well leveled. Then the best seed obtainable should be used. Plant any time from September until late Spring, depending upon the weather and soil conditions. Raking in the seed is advisable, and rolling greatly improves the turf. In watering your lawn soak it deeply and not too often, as light watering every day brings the roots close to the surface, where they quickly burn or dry out. You must not expect to make a fine lawn with cheap seed. The best lawn grass mixture costs more at first than the poorer substitute, but will be found much cheaper and more satisfactory in the end. Our "Diamond Quality" Fancy Mixed Grass Seed is prepared from the choicest re-cleaned Grass Seeds that have been carefully selected for their fineness and deep rooting, close growing habits and seasonable qualities, producing an ideal dense, velvety turf of lasting quality that remains green throughout the year. Sow one pound to 300 square feet, 15 to 20 pounds to a 50-foot lot.

Growing tests have proved our "Diamond Quality" Lawn Grass to be superior to any other mixture for our Western soils and climate; it is also free from chaff and foul seeds, weighing 23 pounds to the measured bushel. This is a guarantee of clean, plump seeds, as cheap chaff seed is very light.

Single lb. postpaid 65c; not prepaid lb. 55c; 10 lbs. postpaid \$5.50

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

"DIAMOND QUALITY" SPECIAL PASTURE MIXTURES

STANDARD PASTURE MIXTURE—For general use; gives splendid satisfaction in the **logged-off and burned-over lands of Western Oregon and Washington**; is composed of standard Pasture and Hay grasses that thrive in this section; a good clean mixture, conforming to the standard of the pure seed laws. **Per 100 lbs. \$14.50**

No. 11. FOR GRAZING PURPOSES—This is a mixture of grasses only, being made up for the benefit of those who wish a mixture without Clover, and will make a fine permanent pasture, but is not intended for hay. **Not prepaid, 10 lbs. \$3.75**

No. 12. FOR BURNED-OVER BOTTOM LAND, OR LAND INCLINED TO BE WET

—This is a mixture that will do well either for hay or for permanent pasture on land that is too wet for many of the grasses and clovers. **Not prepaid, 10 lbs. \$2.90**

"DIAMOND QUALITY"

GRASS SEED

Grass Seed prices subject to change without notice.

10-pound prices postpaid, for larger lots write for prices.

ITALIAN RYE—(*lolium italicum*)—A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures (will last from two to six years). Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40 pounds per acre.

Prepaid, 10 lbs. \$1.80

RED TOP—(*agrostis palustris*)—A good perennial grass. Generally sown for permanent pastures. Does best on moist or even marshy land. If the ground is not overflow land it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsike Clover. Sow 28 pounds per acre chaff seed; 14 pounds hulled.

CHOICE UNHULLED, Prepaid, 10 lbs. \$2.80.

FANCY HULLED. Prepaid, 10 lbs. \$3.40.

SHEEP'S FESCUE—(*festuca ovina*)—Grows freely in high, dry and open pastures. Its chief merit is for sheep pasture. Thirty-five pounds to the acre. **Write for prices.**

SWEET VERNAL—(*anthoxanthum odoratum*)—Valuable to put in pasture mixtures and lawn grass on account of its earliness and its delightful fragrance when in bloom. Thrives under all growing conditions, but is only recommended for use in mixtures. If alone, use 28 pounds per acre.

ANNUAL. Prepaid, 10 lbs. \$3.90.

Write for quantity prices.

TIMOTHY—(*phleum pratense*)—This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the Spring or Fall. Sow 15 to 20 pounds per acre.

Prepaid, 10 lbs. \$1.50

CHEAT SEED—(*bromus secalinus*)—Cheat yields a good crop of hay, especially on low or moist soil and will stand considerable overflow without harm. It makes an excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in the Fall or early Spring same as oats, and about 100 pounds per acre. **Not prepaid, 100 lbs. \$2.75**

ENGLISH RYE GRASS—(*lodium perenne*)—A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. Forty pounds per acre.

For Lawns this is used and recommended by many gardeners. If sown thickly, it makes a fine lawn, and for large grounds and parks it is very successful.

Prepaid, 10 lbs. \$1.80

KENTUCKY BLUE GRASS—(*poa pratensis*)

—One of the best grasses for permanent pasture furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow 28 pounds per acre.

For Lawns—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures. Sow 1 lb. to 300 sq. ft. if used alone.

Prepaid, 10 lbs. \$4.30

MEADOW FESCUE—(*festuca pratensis*)

—Perennial; grows three to four feet high. Roots deep, thus resisting drouth. It succeeds on any high ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures, being valuable to mix with other kinds. Sown alone, use 40 pounds per acre.

Prepaid, 10 lbs. \$2.80

ORCHARD GRASS—(*dactylis glomerata*)

—One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow 28 pounds per acre.

Prepaid, 10 lbs. \$3.20

TALL MEADOW OAT GRASS—(*avena elatior*)

—Often attains a height of 3 to 4 feet by the middle of June. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay.

Write for prices.

MESQUITE—(*notholcus lanatus*)—It is usually sown on virgin soil, without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre chaff seed; hulled 15 pounds per acre.

Write for prices.

CANADIAN BLUE GRASS—(*poa compressa*)

—Recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow 28 pounds per acre.

Write for prices.

SPECIAL MIXTURES for BURNS, DRY or WET LANDS—Temporary or Permanent Plantings for Hay or Pasture—**WRITE US.**

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

SEED OATS

THE production of fine seed oats has always been one of our leading specialties and we consider them to be the most profitable and satisfactory grain crop, being indispensable to stock and dairymen, and their use as a food is constantly increasing.

Planted in season, oats rarely fail, are easily and cheaply grown, and the valuable new varieties which we offer will double the number of bushels per acre that you would get from common seed oats, which means half the cost of production, or twice the profit.

They will mature in July from Spring sowing, giving quick returns and leaving the soil in good condition for Fall planting.

We offer select, re-cleaned, well-matured seed oats of standard varieties, suitable for this section and our own introductions, "**ECLIPSE**," "**CLIMAX**" and "**TRIUMPH**," the earliest and most vigorous, heaviest yielding oats ever grown anywhere.

"**ECLIPSE**"—**Side Oat**—is a reselection from our famous "Shadeland Challenge," and is living up to its name by "eclipsing" all competitors, including the parent stock, being equally as vigorous and early and the massive heads are uniformly larger and filled with plump, heavy thin-hulled oats of finest milling quality.

The yield on light dry soil where our seed crops are grown runs from 75 to 85 bushels per acre and moist bottom land 125 bushels per acre is not uncommon.

"**ECLIPSE**" can be planted Fall or Spring, west of the mountains (Fall plantings should be made on well-drained soil), but in severe climates early Spring planting is best. Matures in 90 to 100 days, and can always be harvested before the Fall rains.

"**CLIMAX**"—**Tree Oat**—For early Spring planting where seasons are short, in high, dry altitudes, and where quick growth and early maturity are demanded, "**CLIMAX**" will give you a bountiful harvest of the finest oats you ever saw. The white grains are uniformly large, plump and full with a very thin hull and are often borne 3 in a spikelet, which partly accounts for its wonderful yield.

In our trials "**CLIMAX**" has not been injured by severe early freezing and later drought, but has stood up, green and vigorous, yielding one hundred bushels per acre on hill land when oat crops throughout the same section were stunted and dried up.

If you live West of the Cascade Mountains you can plant "**Climax**" Fall or Spring, any time the ground is fit, but where the climate is severe, Spring plantings are best.

"**TRIUMPH**"—**Side Oats**—is a new production of the "Shadeland Varieties" and present indications are that it will prove one of the best. It has a stiff straw and does not lodge.

Under unfavorable conditions the past season it has yielded better than 75 bushels per acre. You should give them a trial.

Choice Recleaned Stock of the following varieties can always be supplied

WHITE SEED OATS—We always try to have a selected re-cleaned stock of No. 1 White Seed Oats which we can supply at market prices. Write for samples and prices on the quantity you require.

GRAY WINTER—This Oat is planted extensively throughout the Northwest as a Fall or Winter Oat. Is well and favorably known, being a good yielder, and the Oats are large and plump.

Write for prices.

SWEDISH RED—A comparatively new tree Oat from Sweden having a soft hull and fine soft straw which is ideal for hay. This is the Oat grown so extensively in Northern California and along the Southern Oregon Coast. Sow in Fall or Winter.

Vetches or Tares

Oregon's Greatest Forage Plant

COMMON VETCH—(*Vicia sativa*)—One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. It furnishes an abundance of excellent feed, either green or cut and cured for hay. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Vetches weigh 70 pounds per bushel. Sow in the Fall or early Spring.

Write for prices.

SAND or WINTER VETCHES—(*Vicia villosa*)—This variety thrives on poor, arid, sandy soils. It is sown either in the Fall or early Spring and is generally mixed with rye, which serves to support the plants. It grows to a height of three or four feet, and can be cut twice; first, as soon as the bloom appears, and afterwards for seed. The plant is perfectly hardy and makes a very nutritious food.

PURPLE VETCH—(*Vicia atropurpurea*)—May be considered as a new vetch, it having been grown only to a limited extent, mainly in Oregon and California. It is a distinctly new variety and takes its name largely from the color of the blossom, which is a deep purple. It is being used by a great many orchardists for plowing under. It can be grown as cheaply as Common Vetch and should be planted in the fall on well drained fertile soil, 60 pounds to the acre. It may be used as a hay or silage crop. The plant has been found to be free from attacks of the aphid.

Write for prices.

WOOLLY-PODDER VETCH—(*Vicia dasy-carpa*)—Closely related to hairy vetch, equally hardy, two to three weeks earlier. It differs from Hairy Vetch, having nearly smooth leaves, purple flowers and hairy pods.

Write for prices.

WHEAT

PRIOR to the adoption of the U. S. Grain Standard the Pacific Northwest did not use the grades established by the big eastern wheat centers, but since the U. S. Standards have become effective it is impossible to market mixed varieties of wheat or other grains at the best prices, and growers will find it necessary and profitable to plant only clean, pure seed standard commercial varieties.

We have provided splendid stocks of the best sorts for this section and when ready to buy any variety of Seed Wheat, write us for quotations on quantity wanted or send in your order and we will give full value at lowest seed prices. The following are standard market varieties that are known as the most profitable and best yielding for fall seeding:

PROHI WHEAT — (*Winter*) — Soft, white winter. Beardless, white chaff, medium long kernel. Has a characteristic angular shape to the kernel. Is a good yielder, suited to the well drained soils west of the Cascades.

Write for prices.

FORTY FOLD — (*Winter*) — Forty Fold is referred to as "Gold Coin" in some sections. It is quite early, seed resembling Blue Stem. A favorite Winter variety in many localities, and in good demand for milling.

Write for prices.

WHITE WINTER WHEAT — Soft white Winter Wheat. Beardless with white chaff. Kernels short and plump. A good milling wheat suited to well drained lands west of the Cascade Mountains. Often confused with Rink Wheat but grain and head are both larger and has yielded more under same conditions.

Write for prices.

RINK — (*Winter*) — Similar to White Winter and often mistaken for it, but having a little shorter kernel and head. Yields well and has proven profitable on the well drained rolling lands of the Willamette Valley.

Write for prices.

RED CHAFF — (*Winter*) — Beardless with red chaff and white kernels. Popular variety for Western Oregon and Washington. This variety is often confused with Foise.

Write for prices.

RED RUSSIAN — (*Winter*) — This is extensively grown in the Palouse country of Eastern Washington, where conditions are favorable. It grows vigorously, maturing late, and gives a heavy yield of both grain and foliage. It is a superior variety for choking out weeds, growing close and luxuriantly.

Write for prices.

FOISE — (*Winter*) — Medium hard kernels. Beardless, chaff red. Heads slightly club-shaped at tip. Specially adapted to the richer soils and prairie lands of the valleys and foothills west of the Cascades, and under favorable conditions yields heavily. Mills well.

Write for prices.

TURKEY RED — (*Winter*) — A medium hard red bearded variety; a heavy yielder and does not shatter out easily. Is very hardy, doing well in cold climates, but in moist sections has a tendency to lodge badly. The grain is hard and of good quality. A good wheat for the dry sections east of the Cascades.

Write for prices.

SEED RYE

WINTER RYE is hardy and can be grown on a wide range of soils and makes splendid pasture for late Fall and early Spring after which it will develop a good grain crop or can be turned under for soiling. **Write for prices.**

ROSEN RYE — A fall or winter rye brought from Russia in 1909. Each head fills four complete rows of grain. The grains are much larger than of common rye and the yield double and some make it stronger and say three for one. You cannot make a mistake in trying it.

Write for Prices

SHARPLES CREAM SEPARATORS

WE are Northwestern Agents for the splendid products of the Sharples Co. Their new "**Suction Feed**" Separators are the only Separators that will skim clean at any speed and this feature alone guarantees one-fifth more cream than can be saved by any other separator.

Write us if interested

"BUCKEYE" Hot Water INCUBATORS

We are Northwestern distributors. Write us if interested. See Annual Catalog.

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EVERYTHING FOR THE POULTRYKEEPER

Pullets and Hens from the finest laying strains, ranging in price from \$1.00 to \$3.00. Cockerels \$3.50 to \$10.00.

Send for catalogue of **BUCKEYE INCUBATOR and BROODERS.**

Deliveries of Baby Chicks begin February 15, 1923.

Always feed DIAMOND BRAND POULTRY FOODS.

Our Annual Catalogue contains a complete list of Poultry Supplies of all kinds. This will be mailed free on request.

BELGIAN HARES

RUFUS REDS AND FLEMISH GIANTS
HEMALIANS—The Fur-Bearing Kind—Fine
 sturdy stock of extra vigor and vitality. Full instructions for care and housing with every purchase.

Thoroughbred Pedigreed Stock on Request.

Prices depend on grade of stock and special quotations will be made on request.


PIGEONS

Clean, healthy stocks in standard and fancy breeds can be furnished on short notice. The following list is ready for delivery:

Tumblers, pair \$3.50
Carneaux, per pair 5.00
White Maltese, per pair 5.00
Squab Breeding Homers, pair 2.50-3.00
White Fantails, per pair 5.00

Prices are F. O. B. Portland

Order ahead. Always allow from 3 days to a week for us to make delivery.

 **WRITE US for Fancy Breeds of Pigeons.**
 We can supply them at Right Prices.

We will be pleased to have you write us for any article wanted not found listed herein

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

NOTICE

TO OUR PATRONS:

By the time that this CATALOG reaches you, we will have moved our General Offices from the old location at Front and Yamhill Streets, on the West side to our five-story Brick Warehouse Building on East Alder and First Streets, on the East side.

Our RETAIL STORE and NURSERY SALES ROOM will remain at the old location, Front and Yamhill Streets on the West side, where we will always be pleased to serve you.

This change will enable us to handle your orders both by mail and call with more dispatch and to better satisfaction of all concerned.

We certainly appreciate your past patronage and assure you that we will endeavor to merit your further orders.

When in the City we will appreciate your calling at either of the above places.

PORTLAND SEED CO.

Department	Zone	Do not write in this space	Do not write in this space
General.....		Order No.	
Seed.....			
Bee.....			
Nursery.....	O. K.	Card Made	
Potatoes.....		By.....	
Florist.....			

PORTLAND SEED CO., Portland, Oregon

Please read "How To Order" (Page 1) Before ordering, and save all misundersanding. **WRITE YOUR ADDRESS PLAINLY.** **DON'T FORGET TO SIGN YOUR NAME In The Blanks Below;** also keep your order separate from other matters you may wish to write about. This enables us to **Fill Orders Rapidly** and correctly, and answers to your inquiries will not be delayed or overlooked.

Name.....		
Post Office.....	R. F. D. No.....	
Station.....		
County.....	State.....	
Ship by.....		
State if wanted by Mail, Express or Steamer.		
Date.....	192.....	

Amount Purchased	
\$.....	cts.
Parcel Post, Express and Freight Station, without an Agent must be prepaid.	
Add \$.....	cts.
Amount Enclosed	
\$.....	cts.

Quantity	Article	\$	c
Over	Forward		

Note.—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, trees or plants, sent out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once.—Portland Seed Company.

FROM.....

P O.....



PORTLAND SEED COMPANY

Station A

PORTLAND, OREGON

**Trees
Plants
Roses**

**POULTRY AND BEE
SUPPLIES**

**Tools
and Spray
Pumps**

**MANUFACTURERS
OF
FERTILIZERS**

NEW PARCEL POST RATES

PARCEL POST RATES are based on **DISTRICTS** and **ZONES**. **THE DISTRICT** includes the office where mailed and the rural routes therefrom.

A **DISTRICT RATE OF 5 CENTS** for the **first pound** and **1 cent** for each **additional** two pounds or fraction thereof up to **70 pounds** (the district weight limit) is charged between points in this district.

First and Second Zones cover a radius of 200 miles from the point of mailing, having a weight limit of **70 pounds** and a rate of **5 cents** for the first pound and **1 cent** for each additional pound, or fraction thereof.

The **Third Zone** also has a weight limit of **70 pounds**.

A **weight limit of 50 pounds** applies to the **fourth, fifth, sixth, seventh and eighth zones** with rates increasing with the distance. See table.

SIZE AND WEIGHT—A Parcel Post package may weigh from 4 ounces to 70 pounds for the first, second and third zones—with a 50-pound weight limit for fourth to eighth zones, and **must not exceed in size 84 inches in length and girth combined**.

Four Ounces or less will be charged for at 1 cent per ounce or fraction thereof, **except** on Books, Seeds, Plants, Bulbs, etc., which are 1 cent for 2 ounces up to 8 ounces for any distance.

We have catalogued the weight of most items mailable by Parcel Post and by reference to the table you can always figure your postage.

Parcel Post Rates apply to Seeds, Plants and Books weighing over 8 ounces. Other fourth-class matter over 4 ounces is charged at pound rates	First Pound or Fraction Thereof	Each Additional Pound or Fraction	
Local or District Rate— Portland Office and Rural Routes therefrom.....	\$0.05	½ cent	Weight Limit 70 lbs.
1st Zone/up to and including a radius of 200 miles from the 2nd Zone\ point of mailing.....	.05	\$0.01	Weight Limit 70 lbs.
3rd Zone.....	.06	.02	Weight Limit 70 lbs.
4th Zone.....	.07	.04	Weight Limit 50 lbs.
5th Zone.....	.08	.06	Weight Limit 50 lbs.
6th Zone.....	.09	.08	Weight Limit 50 lbs.
7th Zone.....	.11	.10	Weight Limit 50 lbs.
8th Zone.....	.12	.12	Weight Limit 50 lbs.

The 8th Zone rate applies to **ALASKA, HAWAII** and the **PHILIPPINES** with **20 lb. weight limit**—To **MEXICO** with 11 lbs.; **CUBA**, 4 lbs. 6 oz.; **PANAMA**, 4 lbs. 6 oz. Postage to **CANADA** on 4th Class packages of over 4 oz. and **NOT EXCEEDING 4 lbs. 6 oz.**, go at 8th Zone rate.

PLANTING TABLES

DISTANCES RECOMMENDED FOR PLANTING

Apples (Standard).....	25 to 40 ft. each way	Currants.....	5 ft. x 3 ft.
Pears (Standard).....	20 to 35 ft. each way	Gooseberries.....	5 ft. x 3 ft.
Quince.....	15 ft. each way	Strawberries (hills).....	36 in. x 18 in.
Peaches.....	18 to 24 ft. each way	Strawberries (matted rows).....	48 in. x 12 in.
Plums.....	15 to 20 ft. each way	Grapes.....	8x8 to 10x12 ft.
Cherries.....	25 to 40 ft. each way	Asparagus.....	4 x 1 ft.
Blackberries.....	6 ft. x 4 ft.	Rhubarb.....	4 x 2 ft.
Raspberries.....	6 ft. x 3 ft.		

NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES

In planting trees the greater distance should be given in the richer soils

DISTANCE APART	Square Method	Triangular	DISTANCE APART	Square Method	Triangular
1 foot apart each way.....	43,560	50,300	15 feet apart each way.....	193	223
2 feet apart each way.....	10,890	12,575	16 feet apart each way.....	170	196
4 feet apart each way.....	2,722	3,143	20 feet apart each way.....	108	125
6 feet apart each way.....	1,210	1,397	25 feet apart each way.....	70	81
9 feet apart each way.....	537	620	30 feet apart each way.....	48	55
10 feet apart each way.....	435	502	40 feet apart each way.....	27	31

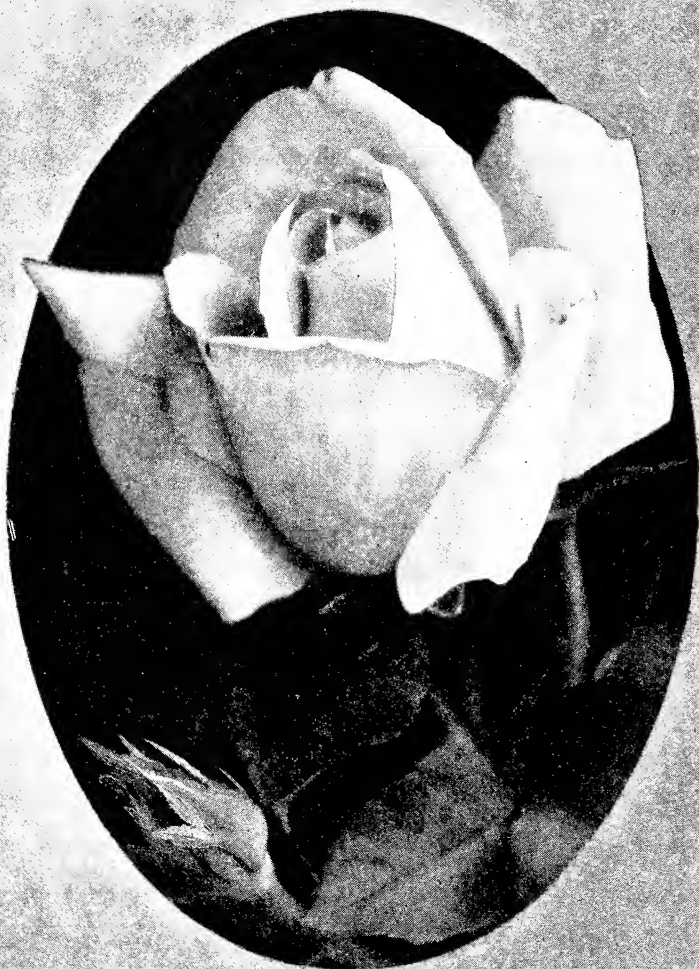
RULE SQUARE METHOD—Multiply the distance in feet between the rows by the distance the plants are apart in the row; this gives the number of square feet for each plant or hill; divided into the number of feet in an acre (43,560) gives the number of plants or trees to an acre.

RULE TRIANGULAR METHOD—Divide the number required to the acre "square method" by the decimal .366. The result will be number of plants required to the acre by triangular planting.

"DIAMOND QUALITY"

Bulbs, Roses, Plants

**FRUIT, SHADE AND
ORNAMENTAL TREES**



**OREGON
STRAWBERRY
PLANTS**

**GROWN
ASPARAGUS
RHUBARB**

